

SERV. 90049



DVD PLAYER

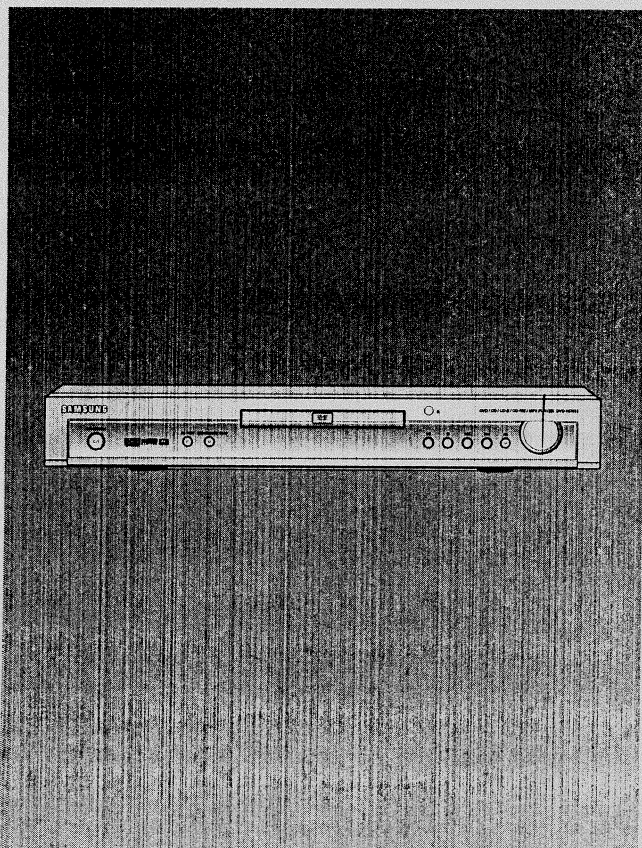
Chassis : Exino

DVD-HD935

SERVICE *Manual*

If you want to know additional information which is not included on this Service Manual, please refer to the DVD-HD935 Training Manual (AK82-00387A).

DVD PLAYER



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1. Precautions

1-1 Safety Precautions

1) Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:

(1) Be sure that no built-in protective devices are defective or have been defeated during servicing.

(1) Protective shields are provided to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience.

(2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fish papers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning.

(2) Be sure that there are no cabinet openings through which adults or children might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, excessively wide cabinet ventilation slots, and an improperly fitted and/or incorrectly secured cabinet back cover.

(3) Leakage Current Hot Check-With the instrument completely reassembled, plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1270 (40.7). With the instrument's AC switch first in the ON position and then in the OFF position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinets, screwheads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis.

Any current measured must not exceed 0.5mA. Reverse the instrument power cord plug in the outlet and repeat the test. See Fig. 1-1.

Any measurements not within the limits specified herein indicate a potential shock hazard that must be eliminated before returning the instrument to the customer.

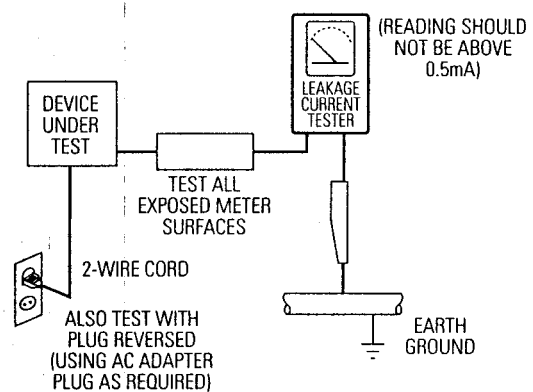


Fig. 1-1 AC Leakage Test

(4) Insulation Resistance Test Cold Check-(1) Unplug the power supply cord and connect a jumper wire between the two prongs of the plug. (2) Turn on the power switch of the instrument. (3) Measure the resistance with an ohmmeter between the jumpered AC plug and all exposed metallic cabinet parts on the instrument, such as screwheads, antenna, control shafts, handle brackets, etc. When an exposed metallic part has a return path to the chassis, the reading should be between 1 and 5.2 megohm. When there is no return path to the chassis, the reading must be infinite. If the reading is not within the limits specified, there is the possibility of a shock hazard, and the instrument must be repaired and rechecked before it is returned to the customer. See Fig. 1-2.

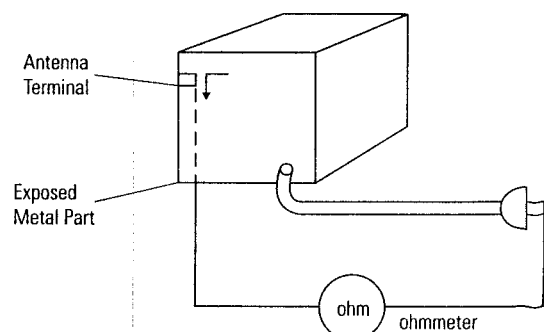


Fig. 1-2 Insulation Resistance Test

Precautions

- 2) Read and comply with all caution and safety related notes on or inside the cabinet, or on the chassis.
- 3) Design Alteration Warning-Do not alter or add to the mechanical or electrical design of this instrument. Design alterations and additions, including but not limited to, circuit modifications and the addition of items such as auxiliary audio output connections, might alter the safety characteristics of this instrument and create a hazard to the user. Any design alterations or additions will make you, the servicer, responsible for personal injury or property damage resulting therefrom.
- 4) Observe original lead dress. Take extra care to assure correct lead dress in the following areas:
(1) near sharp edges, (2) near thermally hot parts (be sure that leads and components do not touch thermally hot parts), (3) the AC supply, (4) high voltage, and (5) antenna wiring. Always inspect in all areas for pinched, out-of-place, or frayed wiring. Do not change spacing between a component and the printed-circuit board. Check the AC power cord for damage.
- 5) Components, parts, and/or wiring that appear to have overheated or that are otherwise damaged should be replaced with components, parts and/or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
- 6) Product Safety Notice-Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by shading, an (⚡) or a (⚡) on schematics and parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

CAUTION : Before servicing units covered by this service manual and its supplements, read and follow the Safety Precautions section of this manual.

Note : If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions. Remember: Safety First.

1-2-1 General Servicing Precautions

- (1) a. Always unplug the instrument's AC power cord from the AC power source before (1) re-moving or reinstalling any component, circuit board, module or any other instrument assembly, (2) disconnecting any instrument electrical plug or other electrical connection, (3) connecting a test substitute in parallel with an electrolytic capacitor in the instrument.
- b. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
- c. Do not apply AC power to this instrument and /or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
- d. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

Note : Refer to the Safety Precautions section ground lead last.

- (2) The service precautions are indicated or printed on the cabinet, chassis or components. When servicing, follow the printed or indicated service precautions and service materials.
- (3) The components used in the unit have a specified flame resistance and dielectric strength. When replacing components, use components which have the same ratings. Components identified by shading, by (\triangle) or by (∇) in the circuit diagram are important for safety or for the characteristics of the unit. Always replace them with the exact replacement components.

- (4) An insulation tube or tape is sometimes used and some components are raised above the printed wiring board for safety. The internal wiring is sometimes clamped to prevent contact with heating components. Install such elements as they were.

- (5) After servicing, always check that the removed screws, components, and wiring have been installed correctly and that the portion around the serviced part has not been damaged and so on. Further, check the insulation between the blades of the attachment plug and accessible conductive parts.

1-2-2 Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power ON. Connect the insulation resistance meter (500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts(see note) should be more than 1 Megohm.

Note : Accessible conductive parts include metal panels, input terminals, earphone jacks, etc.

1-3 ESD Precautions

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity.

Such components commonly are called Electrostatically Sensitive Devices(ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- (1) Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- (2) After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- (3) Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
- (4) Use only an anti-static solder removal devices. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
- (5) Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
- (6) Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it.(Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
- (7) Immediately before removing the protective materials from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
- (8) Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

1-4 Handling the optical pick-up

The laser diode in the optical pick up may suffer electrostatic breakdown because of potential static electricity from clothing and your body.

The following method is recommended.

- (1) Place a conductive sheet on the work bench (The black sheet used for wrapping repair parts.)
 - (2) Place the set on the conductive sheet so that the chassis is grounded to the sheet.
 - (3) Place your hands on the conductive sheet (This gives them the same ground as the sheet.)
 - (4) Remove the optical pick up block
 - (5) Perform work on top of the conductive sheet. Be careful not to let your clothes or any other static sources to touch the unit.
- ◆ Be sure to put on a wrist strap grounded to the sheet.
 - ◆ Be sure to lay a conductive sheet made of copper etc. Which is grounded to the table.

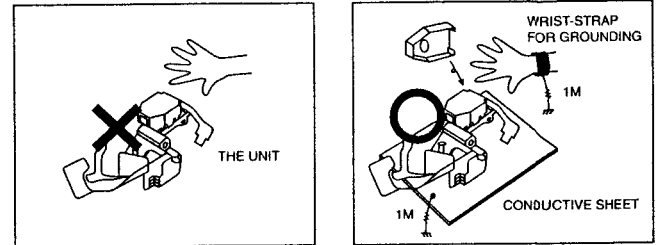


Fig.1-3

- (6) Short the short terminal on the PCB, which is inside the Pick-Up ASS'Y, before replacing the Pick-Up. (The short terminal is shorted when the Pick-Up Ass'y is being lifted or moved.)
- (7) After replacing the Pick-up, open the short terminal on the PCB.

1-5 Pick-up disassembly and reassembly

1-5-1 Disassembly

- 1) Remove the power cord.
- 2) Disassemble the Deck-Assy.
- 3) Make solder land 2 points short on Pick-up.
(See Fig. 1-4)
- 4) Disassembly the Pick-up.

1-5-2 Assembly

- 1) Replace the Pick-up.
- 2) Remove the soldering 2 points on Pick-up.
- 3) Reassemble the Deck-Assy.

Note : If the assembly and disassembly are not done in correct sequence, the Pick-up may be damaged.

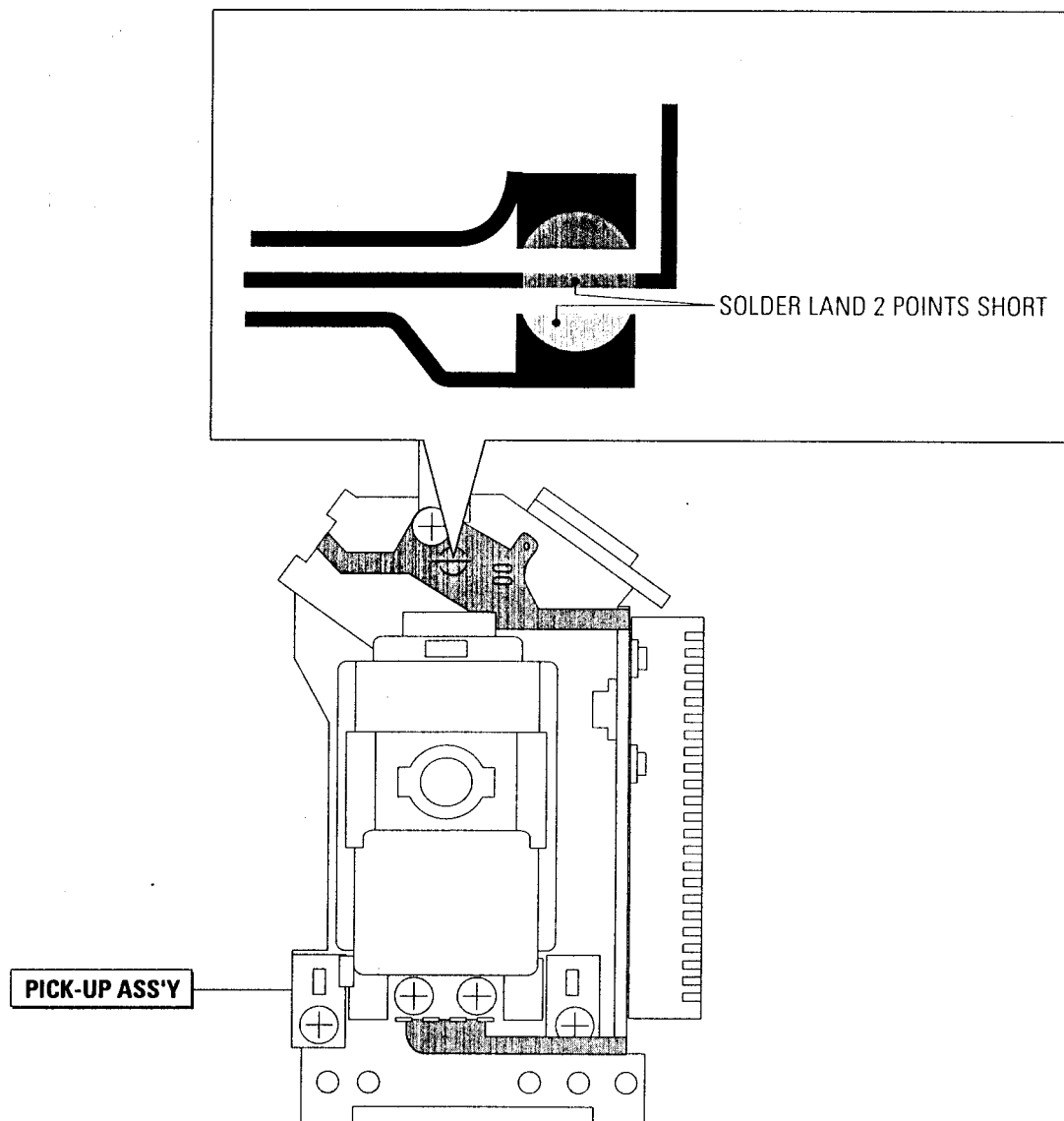


Fig. 1-4

2. Alignment and Adjustment

2-1 Location of Test Point

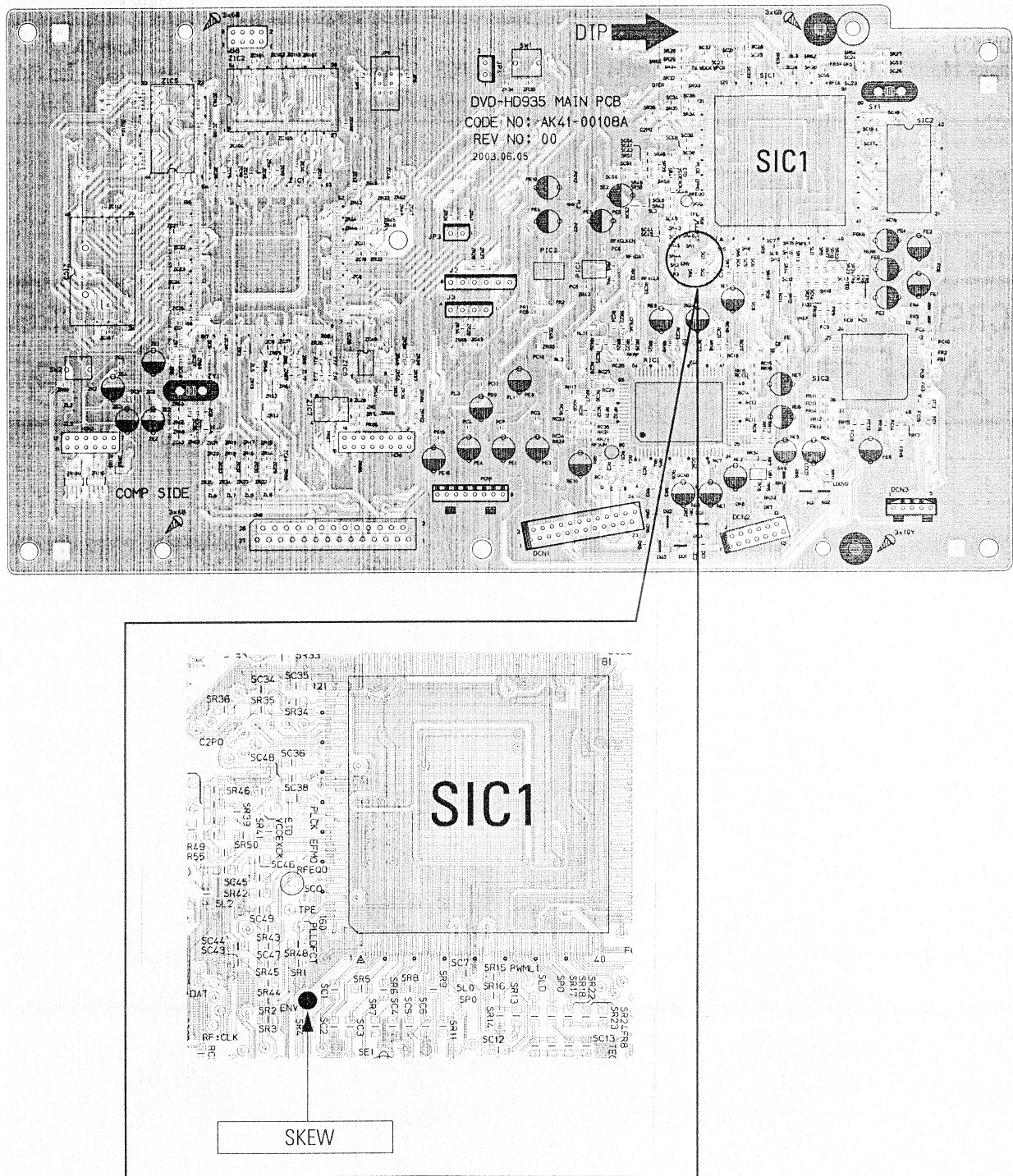


Fig. 2-1 Location of Test Point

2-2 Skew Adjustment

2-2-1 Adjustment Spec. and Test Point

<Table 2-1>

◆ Test Disc ; Service not Available

Test Disc	Adjustment Spec.	Test Point	Adjustment Location
TDV-533 Chapter 14	Flat Waveform	"ENV" (Main PCB - Component Side) (See Fig. 2-1)	Screw A / B Ass'y Deck - Top Side (See Fig. 2-2)

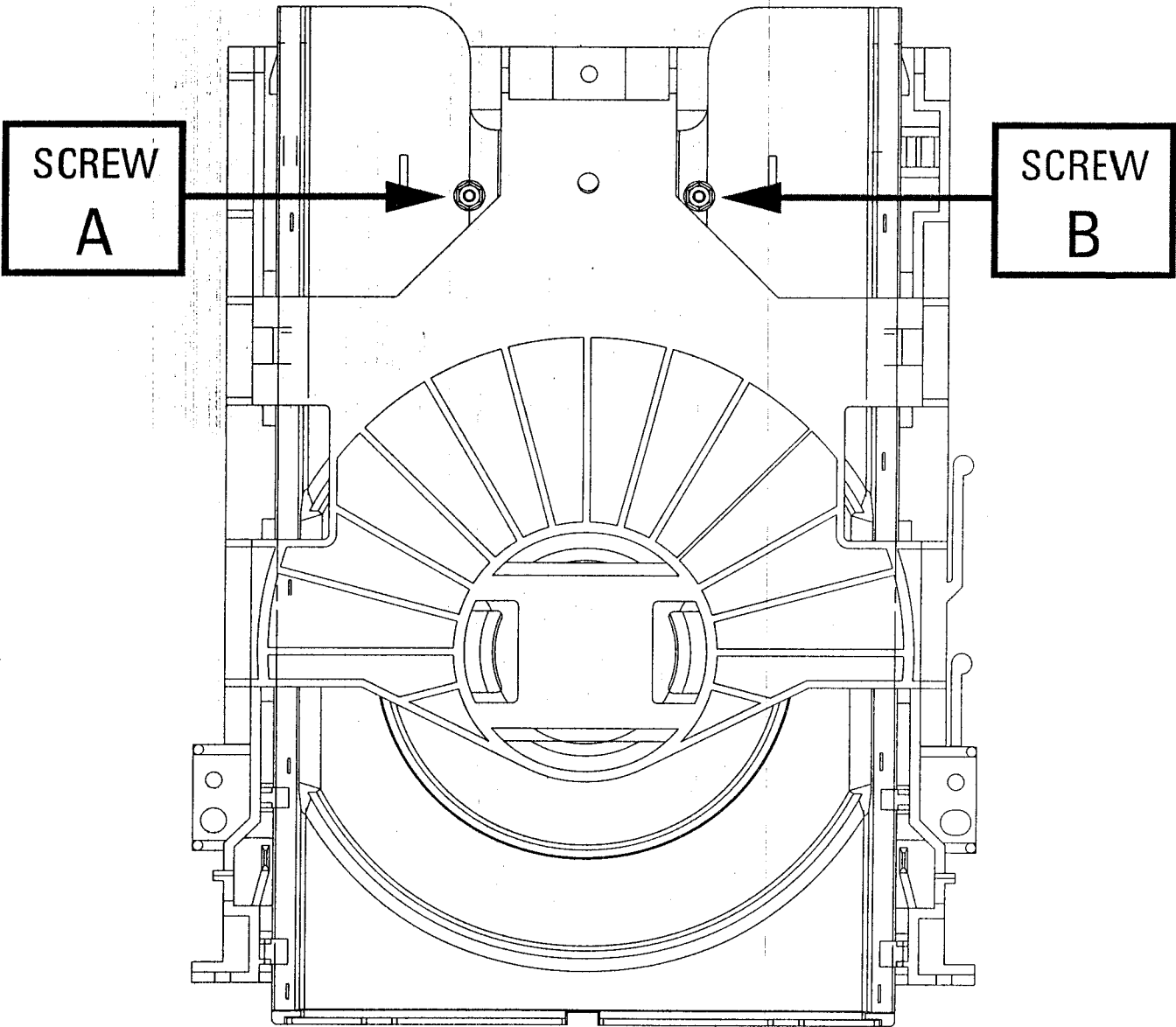


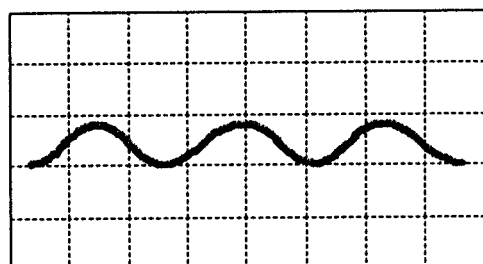
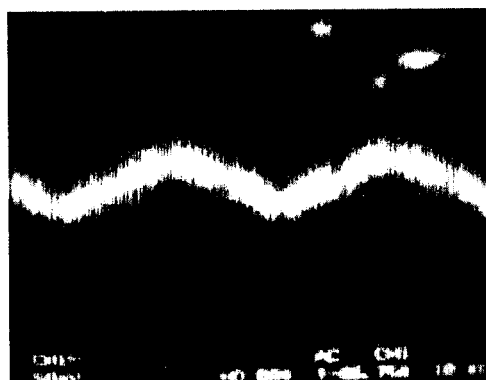
Fig. 2-2 Ass'y Deck (Top Side)

2-2-2 SKEW Adjustment Method

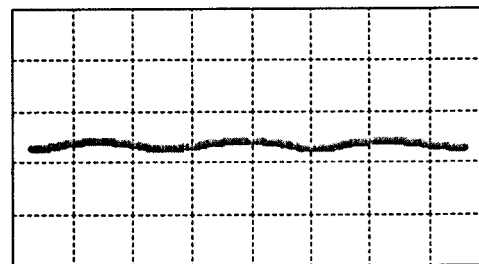
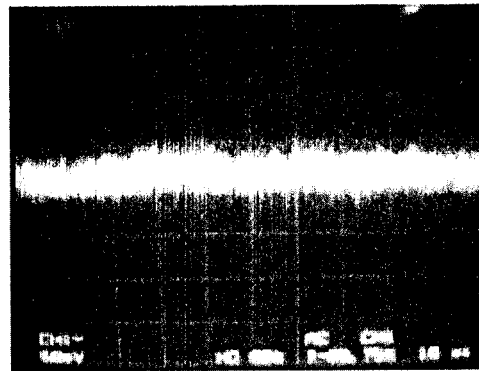
Needed to minimize the variations in Skew of the Pickup unit and to provide optimum match with the recorded signal on the Disc.

- 1) Connect an Oscilloscope to the "ENV" Test Point (See Fig. 2-1).
- 2) Connect Power, Open the Tray and Play the TDV-533 Disc, Chapter 14.
 - ◆ Set the Oscilloscope Range as follows :
(Voltage ; 50mV/Div., Frequency ; 10m Sec.)
- 3) Adjust the Screws "A" and "B" (See Fig. 2-2) using a Hex screwdriver until you obtain a Flat Waveform and the picture is stable.
 - Then, go to Chapter 1 and make sure the Waveform is Flat here as well.
 - If not, you have to go back to Chapter 14 and adjust again.
 - If you cannot obtain a Flat waveform, then the unit is defective.

Note : The Deck must be in a horizontal position. Use both "A" and "B" screws to adjust.



Typical Waveform before Adjustment



Waveform after Correct Adjustment

Fig. 2-3 Envelope Waveform

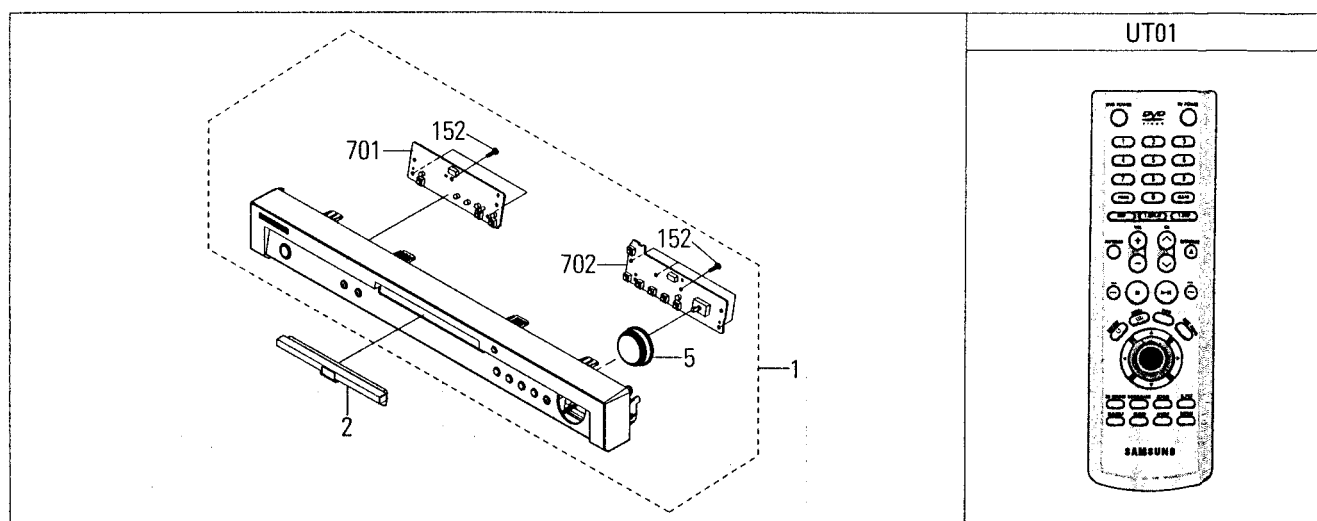
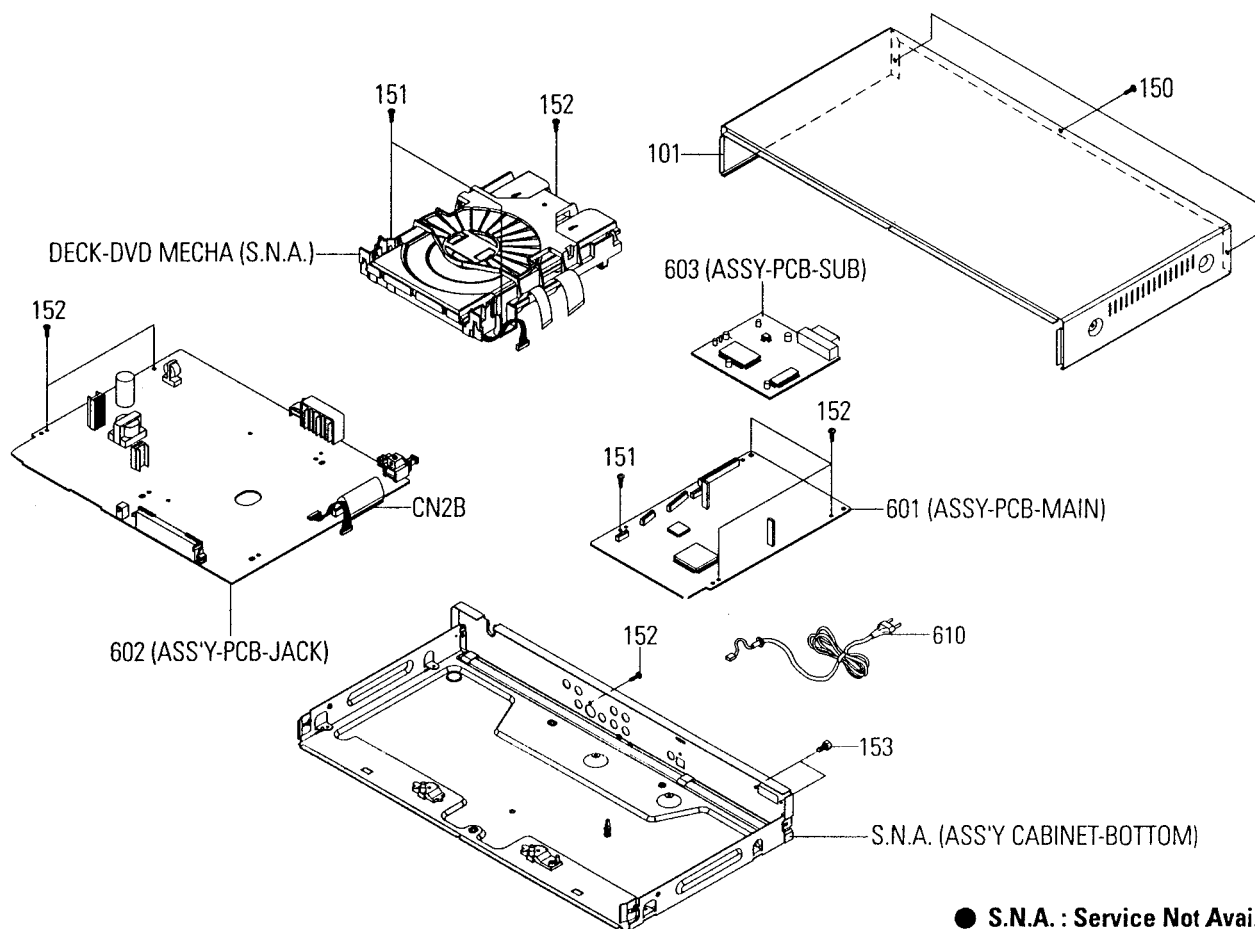
3. Exploded View and Parts List

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Notice

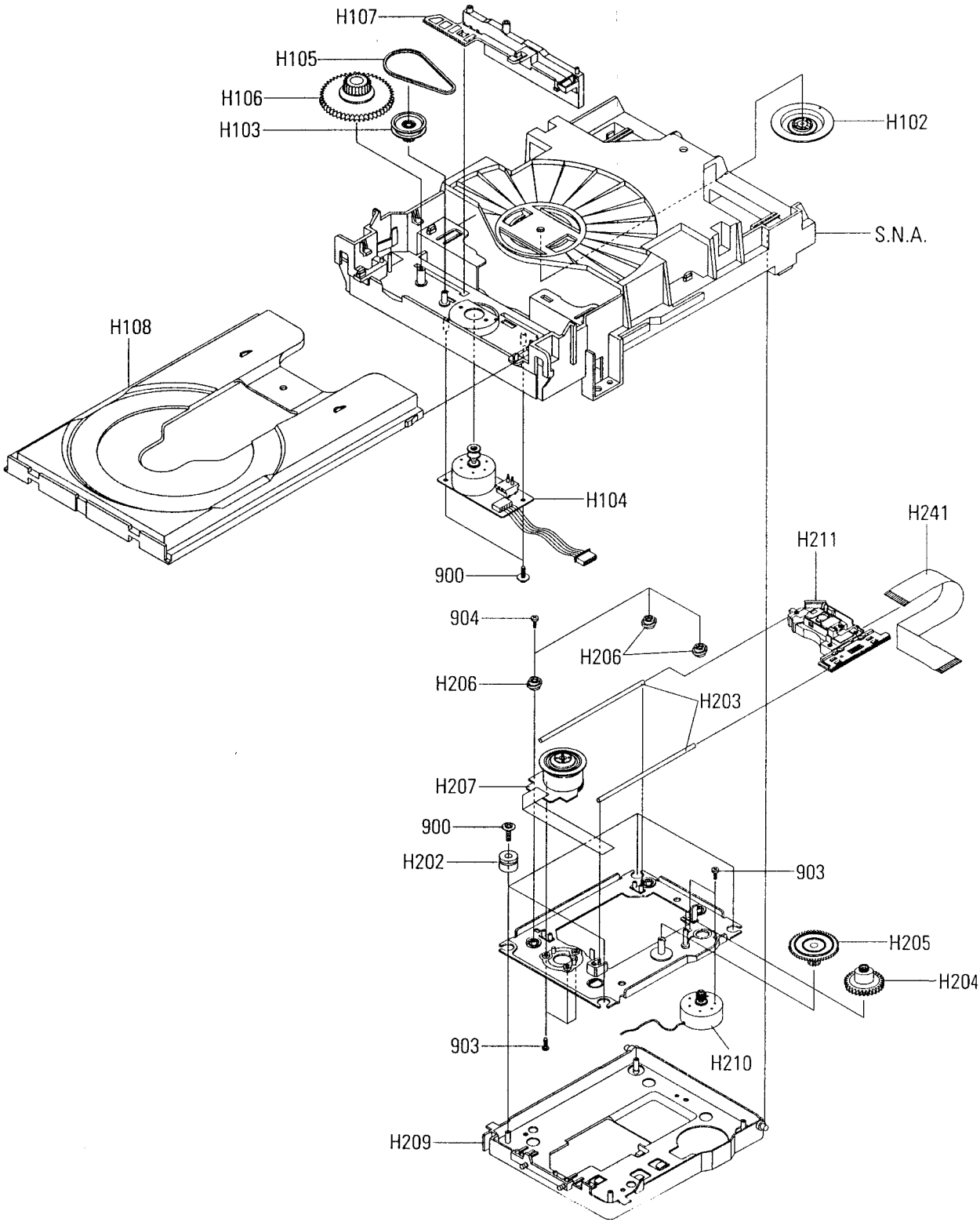
You can search for the updated part code through ITSELF web site.
URL: <http://itself.sec.samsung.co.kr>

3-1 Cabinet Assembly



Loc. No.	Parts No.	Description, Specification	Remark
1	AK97-00367C	ASSY FRONT CABINET;ABS 94HB,DVD-HD935/XE	
2	AK97-00369A	ASSY-DOOR;ASSY,DVD-H931,XAA	
5	AK64-00221A	KNOB-SHUTTLE;DVD-HD931,ABS 94HB,-,-,-,-,	
101	AK64-00101F	CABINET-TOP;DVD-HD931,PCM,T0.625,-,-,-,G	
150	6003-000275	SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101	
151	6003-000262	SCREW-TAPTITE;BH,+,B,M3,L6,CBLACK,SWRCH1	
152	6003-000283	SCREW-TAPTITE;BH,+,B,M3,L8,ZPC(YEL),SM20	
153	6046-001007	STAND OFF;M3,L5,NI PLT,SUM24L,#4-40	
601	AK92-00274A	ASSY PCB-MAIN;DVD-HD935,MAIN ASS	
602	AK92-00175E	ASSY PCB-JACK;DVD-HD935/XEL,JACK ASS	
603	AK92-00292A	ASSY PCB-SUB;DVD-HD593,SUB	
610	AC39-10019A	CBF POWER CORD;KKP-419C,H03VVH2-F,VDE/KE	
	AC39-12022K	CBF POWER CORD;Y352160,H03VVH2F,-,BS650	Only for U.K.
701	AK92-00198A	ASSY PCB-PWR KEY;DVD-HD931,PWR-KEY PCB A	
702	AK92-00197A	ASSY PCB-JOG KEY;DVD-HD931,JOG-KEY PCB A	
CN2B	3809-001317	CABLE-FLAT;30V,80C,80MM,27P,1.25MM,UL289	
UT01	AK59-00012C	REMOCON-ASSY;DVD-HD935/XEL,XEL,-,-,-,-,-	

3-2 Deck Assembly



Loc. No	Parts No	Description ; Specification	Remark
900	6003-001157	SCREW-TAPTITE;PWH,+,B,M2,L6,ZPC(YEL),SWR	
903	6001-001370	SCREW-MACHINE;CH,+,M1.7,L3.0,ZPC(YEL),SW	
904	6002-001086	SCREW-TAPPING;PH,+,B,M1.7,L5.0,ZPC(YEL),	
H102	AH66-00111B	CLAMPER-ASSY;DP-5,POM+MAGNET,-,-,-,-,-	
H103	AK66-00007A	PULLEY-GEAR;DP-9,POM,-,-,-,-,-	
H104	AK31-00003A	MOTOR-LOAD ASSY;SM-2412L2,DP-9,-,-,-,-	
H105	6602-001076	BELT-RECTANGULAR;CR,T1.2,4.3%,1.2X25.1,B	
H106	AK66-00008A	GEAR-TRAY;DP-9,POM,-,-,-,-,-	
H107	AK66-00009A	SLIDER-HOUSING;DP-9,POM,-,-,-,-	
H108	AK63-00008A	TRAY-DISC;DP-9,ABS,-,-,-,-,BLK,DP-9	
H202	AK73-00005A	RUBBER-INSULATOR;DP-9,BUTYL RUBBER,-,-,-	
H203	AH61-50327A	SHAFT-P/U;DP-3,SUS420J2,L84.7,OD3,-,-,-	
H204	AK66-00010A	GEAR-FEED A;DP-9,POM,-,-,-,-,-	
H205	AK66-00011A	GEAR-FEED B;DP-9,POM,-,-,-,-,-	
H206	AK61-00032A	HOLDER-CAM SKEW;DP-9,POM,-,-,-,BLACK,-	
H207	AK31-00004A	MOTOR SPINDLE;RSM-2606A1,DP-9,350MA,-,-,-	
H209	AK64-00052A	CHASSIS-SUB;DP-9,ABS(SR-0320),0,0,0,-,-,-	
H210	AK31-00005A	MOTOR-FEED ASSY;-DP-9,-,-,-,-,-,-,-,-	
H211	AK97-00166A	ASSY-PICK UP;-SOH-DSSA,SEM,W/T	
H241	3809-001409	CABLE-FLAT;30V,80C,230MM,24P,1MM,UL2896	

4. Electrical Parts List

		Remark	Loc. No.	Part No.	Description : Specification	Remark
601	AK92-00274A	ASSY PCB-MAIN;DVD-HD935,MAIN ASS	DVR14	2007-000074	R-CHIP;100ohm,5%,1/10W,TP;1608	
CN8	3708-000249	CONNECTOR-FPC/FFC/PIC;27P;1.25mm,STRAIGH	DVR15	2007-000074	R-CHIP;100ohm,5%,1/10W,TP;1608	
D1	0401-000008	DIODE-SWITCHING;DAN217,80V,100mA,SOT-23,	DVR19	2007-001002	R-CHIP;510ohm,5%,1/10W,TP;1608	
D10	0401-000008	DIODE-SWITCHING;DAN217,80V,100mA,SOT-23,	FC1	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
D17	0401-000008	DIODE-SWITCHING;DAN217,80V,100mA,SOT-23,	FC10	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
D18	0401-000008	DIODE-SWITCHING;DAN217,80V,100mA,SOT-23,	FC11	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
D2	0401-000008	DIODE-SWITCHING;DAN217,80V,100mA,SOT-23,	FC12	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
D23	0401-000008	DIODE-SWITCHING;DAN217,80V,100mA,SOT-23,	FC13	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
D24	0401-000008	DIODE-SWITCHING;DAN217,80V,100mA,SOT-23,	FC15	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
D9	0401-000008	DIODE-SWITCHING;DAN217,80V,100mA,SOT-23,	FC2	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DC1	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	FC3	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DC14	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	FC4	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DC2	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	FC5	2203-001222	C-CERAMIC,CHIP;820pF,10%,50V,X7R,TP;1608	
DCN1	3708-001696	CONNECTOR-FPC/FFC/PIC;24P;1MM,STRAIGHT,S	FC6	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DCN2	3708-001695	CONNECTOR-FPC/FFC/PIC;13P;1MM,STRAIGHT,S	FC7	2203-000140	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP;1608	
DCN3	3711-001018	CONNECTOR-HEADER;BOX,5P;1R,2mm,STRAIGHT,	FE1	2401-002144	C-AL;47uF,20%,16V,GP,TP;5x11,5	
DD1	0407-000116	DIODE-ARRAY;DAP202K,80V,100mA,CK2-3,SOT-	FE2	2401-002144	C-AL;47uF,20%,16V,GP,TP;5x11,5	
DL21	2007-000072	R-CHIP;47ohm,5%,1/10W,TP;1608	FE3	2401-002144	C-AL;47uF,20%,16V,GP,TP;5x11,5	
DL22	2007-000072	R-CHIP;47ohm,5%,1/10W,TP;1608	FE4	2401-002144	C-AL;47uF,20%,16V,GP,TP;5x11,5	
DL24	2007-000072	R-CHIP;47ohm,5%,1/10W,TP;1608	FE5	2401-002144	C-AL;47uF,20%,16V,GP,TP;5x11,5	
DL25	2007-000072	R-CHIP;47ohm,5%,1/10W,TP;1608	FE6	2401-000414	C-AL;10uF,20%,16V,GP,TP;4x7,5	
DL27	2007-000072	R-CHIP;47ohm,5%,1/10W,TP;1608	FR1	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP;1608	
DL28	2007-000072	R-CHIP;47ohm,5%,1/10W,TP;1608	FR10	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP;1608	
DL30	2007-000072	R-CHIP;47ohm,5%,1/10W,TP;1608	FR11	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP;1608	
DL31	2007-000072	R-CHIP;47ohm,5%,1/10W,TP;1608	FR12	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP;1608	
DQ1	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	FR13	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP;1608	
DQ2	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	FR14	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP;1608	
DQ3	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	FR15	2007-000655	R-CHIP;27Kohm,5%,1/10W,TP;1608	
DR1	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP;1608	FR16	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP;1608	
DR16	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP;1608	FR17	2007-000088	R-CHIP;7.5Kohm,5%,1/10W,TP;1608	
DR161	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP;1608	FR18	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP;1608	
DR2	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP;1608	FR2	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP;1608	
DR3	2007-000075	R-CHIP;220ohm,5%,1/10W,TP;1608	FR3	2007-000034	R-CHIP;10HM,5%,1/4W,DA,TP;3216	
DR4	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP;1608	FR4	2007-000034	R-CHIP;10HM,5%,1/4W,DA,TP;3216	
DR5	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP;1608	FR5	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP;1608	
DR6	2007-000075	R-CHIP;220ohm,5%,1/10W,TP;1608	FR6	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP;1608	
DR6	2007-000074	R-CHIP;100ohm,5%,1/10W,TP;1608	FR7	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP;1608	
DR61	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP;1608	FR8	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP;1608	
DR7	2007-000116	R-CHIP;120ohm,5%,1/10W,TP;1608	FR9	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP;1608	
DR7	2007-000074	R-CHIP;100ohm,5%,1/10W,TP;1608	HC104	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DR71	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP;1608	HC113	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DR8	2007-000116	R-CHIP;120ohm,5%,1/10W,TP;1608	HC124	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC1	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	HC129	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC10	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	HC139	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC101	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	HC147	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC12	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	HC158	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC17	2203-005065	C-CERAMIC,CHIP;100nF,+80-20%,10V,Y5V,TP	HC162	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC18	2007-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NPQ,TP;1608	HC166	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC23	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	HC17	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC29	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	HC172	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC3	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	HC175	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC33	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NPQ,TP;1608	HC184	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC34	2203-005065	C-CERAMIC,CHIP;100nF,+80-20%,10V,Y5V,TP	HC194	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVC49	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	HC199	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVE1	2401-001507	C-AL;47uF,20%,16V,GP,TP;6.3x5,5	HC206	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DV1_CO	3701-001221	CONNECTOR-DSUB;24P+4P;3R,FEMALE,ANGLE,AU	HC212	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVIC1	1205-002170	IC-TRANSMITTER;SII170BCL6,LQFP64;10X1	HC232	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVR11	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP;1608	HC238	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVR114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP;1608	HC244	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVR115	2007-000070	R-CHIP;0ohm,5%,1/10W,TP;1608	HC252	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	
DVR13	2007-000074	R-CHIP;100ohm,5%,1/10W,TP;1608	HC272	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP;1608	

Electrical Parts List

Loc.No	Part No	Description : Specification	Remark
HC278	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC284	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC286	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC308	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC31	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC37	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC47	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC49	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC58	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC63	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC69	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC81	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC89	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC9	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HC97	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HCH1	3711-005416	CONNECTOR-HEADER,NOWALL,16P,2R,2mm,STRAIGHT	
HCH2	3711-005414	CONNECTOR-HEADER,NOWALL,12P,2R,2mm,STRAIGHT	
HCH3	3711-005413	CONNECTOR-HEADER,NOWALL,8P,2R,2.0mm,STRAIGHT	
HD111	2007-001044	R-CHIP,56ohm,5%,1/10W,TP,1608	
HDA101	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HDA50	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HDA54	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HDA58	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HDA64	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HDA70	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HDA74	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HDA78	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HDA84	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HDA91	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HDA95	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HE157	2401-001507	C-AL,47uF,20%,16V,GP,TP,6.3x5.5	
HE167	2401-001507	C-AL,47uF,20%,16V,GP,TP,6.3x5.5	
HE187	2401-001507	C-AL,47uF,20%,16V,GP,TP,6.3x5.5	
HE243	2401-001507	C-AL,47uF,20%,16V,GP,TP,6.3x5.5	
HIC1	1204-002078	IC-VIDEO PROCESS,S2310,POFP,208P,28X28MM	
HIC2	1105-001404	IC-DRAM,W986432DH-6,4X512KX32BIT,TSOP1	
HIC3	0801-002001	IC-CMOS LOGIC,TWV74,D,FLIP-FLOP,SSOP,8P,1	
HL166	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,	
HL169	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,	
HL194	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,	
HNR131	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HNR135	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HNR141	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HNR145	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HNR151	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HNR155	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP,8P,TP	
HR104	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
HR105	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
HR106	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
HR107	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
HR108	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
HR109	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
HR110	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
HR118	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
HR119	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
HR122	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
HR125	2007-000076	R-CHIP,330ohm,5%,1/10W,TP,1608	
HR156	2007-000084	R-CHIP,4.7Kohm,5%,1/10W,TP,1608	
HR191	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
HR267	2007-000084	R-CHIP,4.7Kohm,5%,1/10W,TP,1608	
HR311	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
HR325	3301-001419	BEAD-SMD,220,500,TP,0.3	
HR441	2007-000084	R-CHIP,4.7Kohm,5%,1/10W,TP,1608	
HR45	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
HR46	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
HR47	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	

Loc.No	Part No	Description : Specification	Remark
JP5	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
JP6	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
PC1	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
PC10	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
PC11	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
PC12	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
PC15	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
PC3	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
PC4	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
PC5	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
PC6	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
PC7	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
PC8	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
PCN1	3711-001137	CONNECTOR-HEADER,BOX,8P,1R,2mm,STRAIGHT	
PE1	2401-002165	C-AL,100uF,20%,16V,GP,TP,6.3x7.5	
PE10	2401-002165	C-AL,100uF,20%,16V,GP,TP,6.3x7.5	
PE15	2401-002165	C-AL,100uF,20%,16V,GP,TP,6.3x7.5	
PE3	2401-002165	C-AL,100uF,20%,16V,GP,TP,6.3x7.5	
PE4	2401-002165	C-AL,100uF,20%,16V,GP,TP,6.3x7.5	
PE5	2401-002165	C-AL,100uF,20%,16V,GP,TP,6.3x7.5	
PE6	2401-002165	C-AL,100uF,20%,16V,GP,TP,6.3x7.5	
PE8	2401-002165	C-AL,100uF,20%,16V,GP,TP,6.3x7.5	
PE9	2401-002165	C-AL,100uF,20%,16V,GP,TP,6.3x7.5	
PIC1	1203-002814	IC-VOLTAGE REGULATOR,G911T24U,SOT-89,3P	
PIC2	1203-002779	IC-VOLTAGE REGULATOR,G952T63U,SOT-223,3P	
PL1	2703-000398	INDUCTOR-SMD,10uH,10%,3.2x2.5x2.2mm	
PL2	2007-000033	R-CHIP,0ohm,5%,1/4W,TP,3216	
PL3	2703-000398	INDUCTOR-SMD,10uH,10%,3.2x2.5x2.2mm	
PR1	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
PR33	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
PR4	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
PR85	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
PR86	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
PR87	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
PRC3	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
PRC62	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
PRIC2	1203-002577	IC-VOLTAGE REGULATOR,MM1561J,SOP,7P,173M	
PRR1	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
PRR2	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
PSE1	2401-001507	C-AL,47uF,20%,16V,GP,TP,6.3x5.5	
PSL1	2703-000398	INDUCTOR-SMD,10uH,10%,3.2x2.5x2.2mm	
PSL2	2703-000398	INDUCTOR-SMD,10uH,10%,3.2x2.5x2.2mm	
RC1	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC11	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC12	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC13	2203-000975	C-CERAMIC,CHIP,47nF,10%,25V,X7R,TP,1608	
RC14	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC15	2203-000975	C-CERAMIC,CHIP,47nF,10%,25V,X7R,TP,1608	
RC16	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
RC17	2203-006035	C-CERAMIC,CHIP,220NF,±10%,10V,X7R,TP,16	
RC18	2203-000236	C-CERAMIC,CHIP,0.1nF,5%,50V,COG,TP,1608	
RC19	2203-006035	C-CERAMIC,CHIP,220NF,±10%,10V,X7R,TP,16	
RC2	2203-000140	C-CERAMIC,CHIP,1.5nF,10%,50V,X7R,TP,1608	
RC21	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC22	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC23	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC24	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC25	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC27	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC28	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC29	2203-000236	C-CERAMIC,CHIP,0.1nF,5%,50V,COG,TP,1608	
RC3	2203-000140	C-CERAMIC,CHIP,1.5nF,10%,50V,X7R,TP,1608	
RC31	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC32	2203-006035	C-CERAMIC,CHIP,220NF,±10%,10V,X7R,TP,16	
RC33	2203-000715	C-CERAMIC,CHIP,3.3nF,10%,50V,X7R,TP,1608	
RC34	2203-000140	C-CERAMIC,CHIP,1.5nF,10%,50V,X7R,TP,1608	

Loc.No	Part No	Description : Specification	Remark
RC35	2203-000236	C-CERAMIC,CHIP,0.1NF,5%,50V,COG,TP,1608	
RC37	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC4	2203-000140	C-CERAMIC,CHIP,1.5nF,10%,50V,X7R,TP,1608	
RC5	2203-000140	C-CERAMIC,CHIP,1.5nF,10%,50V,X7R,TP,1608	
RC6	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC7	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC8	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RC9	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
RE1	2401-000913	C-AL,22uF,20%,16V,GP,TP5x11.5	
RE10	2401-002165	C-AL,100uF,20%,16V,GP,TP6.3x7.5	
RE2	2401-000414	C-AL,10uF,20%,16V,GP,TP4x7.5	
RE3	2401-000414	C-AL,10uF,20%,16V,GP,TP4x7.5	
RE4	2401-002144	C-AL,47uF,20%,16V,GP,TP5x11.5	
RE5	2401-000913	C-AL,22uF,20%,16V,GP,TP5x11.5	
RE6	2401-000414	C-AL,10uF,20%,16V,GP,TP4x7.5	
RE7	2401-000414	C-AL,10uF,20%,16V,GP,TP4x7.5	
RE8	2401-000414	C-AL,10uF,20%,16V,GP,TP4x7.5	
RE9	2401-000414	C-AL,10uF,20%,16V,GP,TP4x7.5	
RI1	AH13-00009C	IC ASIC,SSL1463A01-Q1,DVD-L200,80,+5,-	
RI11	2703-000398	INDUCTOR-SMD,10uH,10%,3.2x2.5x2.2mm	
RI3	2703-000398	INDUCTOR-SMD,10uH,10%,3.2x2.5x2.2mm	
RI1	0501-000279	TR-SMALL SIGNAL,KSA1182-Y,PNP,150mW,SOT-	
RI2	0501-000279	TR-SMALL SIGNAL,KSA1182-Y,PNP,150mW,SOT-	
RI11	2007-000078	R-CHIP,1Kohm,5%,1/10W,TP,1608	
RI12	2007-000312	R-CHIP,10ohm,5%,1/4W,TP,3216	
RI15	2007-000102	R-CHIP,100Kohm,5%,1/10W,TP,1608	
RI16	2007-000102	R-CHIP,100Kohm,5%,1/10W,TP,1608	
RI17	2007-000090	R-CHIP,10Kohm,5%,1/10W,TP,1608	
RI18	2007-000078	R-CHIP,1Kohm,5%,1/10W,TP,1608	
RI19	2007-000091	R-CHIP,12Kohm,5%,1/10W,TP,1608	
RI2	2007-000458	R-CHIP,18Kohm,5%,1/10W,TP,1608	
RI21	2007-000091	R-CHIP,12Kohm,5%,1/10W,TP,1608	
RI22	2007-000655	R-CHIP,27Kohm,5%,1/10W,TP,1608	
RI23	2007-001235	R-CHIP,910Kohm,5%,1/10W,TP,1608	
RI24	2007-000134	R-CHIP,33Kohm,5%,1/10W,TP,1608	
RI25	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
RI26	2007-000102	R-CHIP,100Kohm,5%,1/10W,TP,1608	
RI28	2007-000102	R-CHIP,100Kohm,5%,1/10W,TP,1608	
RI29	2007-000381	R-CHIP,13Kohm,5%,1/10W,TP,1608	
RI3	2007-000091	R-CHIP,12Kohm,5%,1/10W,TP,1608	
RI31	2007-000102	R-CHIP,100Kohm,5%,1/10W,TP,1608	
RI32	2007-000084	R-CHIP,4.7Kohm,5%,1/10W,TP,1608	
RI33	2007-001179	R-CHIP,8.2Kohm,5%,1/10W,TP,1608	
RI34	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
RI4	2007-000091	R-CHIP,12Kohm,5%,1/10W,TP,1608	
RI5	2007-000091	R-CHIP,12Kohm,5%,1/10W,TP,1608	
RI7	2007-000086	R-CHIP,5.6Kohm,5%,1/10W,TP,1608	
RI8	2007-000077	R-CHIP,470ohm,5%,1/10W,TP,1608	
RI9	2007-000312	R-CHIP,10ohm,5%,1/4W,TP,3216	
SC1	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SC1	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SC11	2203-006035	C-CERAMIC,CHIP,220NF,+10%,10V,X7R,TP,16	
SC13	2203-001634	C-CERAMIC,CHIP,33nF,10%,50V,X7R,TP,1608	
SC14	2203-000491	C-CERAMIC,CHIP,2.2nF,10%,50V,X7R,TP,1608	
SC15	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SC16	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
SC17	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
SC18	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
SC2	2203-001652	C-CERAMIC,CHIP,470nF,+80-20%,16V,Y5V,TP	
SC23	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SC24	2203-000681	C-CERAMIC,CHIP,0.027NF,5%,50V,COG,TP,160	
SC25	2203-000681	C-CERAMIC,CHIP,0.027NF,5%,50V,COG,TP,160	
SC26	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SC27	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
SC28	2203-000815	C-CERAMIC,CHIP,0.033NF,5%,50V,COG,TP,160	
SC29	2203-000815	C-CERAMIC,CHIP,0.033NF,5%,50V,COG,TP,160	

Loc.No	Part No	Description : Specification	Remark
SC3	2203-002398	C-CERAMIC,CHIP,22nF,10%,50V,X7R,TP,1608	
SC3	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SC31	2203-000626	C-CERAMIC,CHIP,0.022NF,5%,50V,COG,TP,160	
SC32	2203-000815	C-CERAMIC,CHIP,0.033NF,5%,50V,COG,TP,160	
SC33	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
SC34	2203-000626	C-CERAMIC,CHIP,0.022NF,5%,50V,COG,TP,160	
SC35	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
SC36	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
SC38	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SC4	2203-001652	C-CERAMIC,CHIP,470nF,+80-20%,16V,Y5V,TP	
SC41	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SC42	2203-000140	C-CERAMIC,CHIP,1.5nF,10%,50V,X7R,TP,1608	
SC43	2203-001634	C-CERAMIC,CHIP,33nF,10%,50V,X7R,TP,1608	
SC44	2203-000715	C-CERAMIC,CHIP,3.3nF,10%,50V,X7R,TP,1608	
SC45	2203-001126	C-CERAMIC,CHIP,0.68nF,10%,50V,X7R,TP,160	
SC46	2203-000975	C-CERAMIC,CHIP,47nF,10%,25V,X7R,TP,1608	
SC47	2203-000140	C-CERAMIC,CHIP,1.5nF,10%,50V,X7R,TP,1608	
SC48	2203-000815	C-CERAMIC,CHIP,0.033NF,5%,50V,COG,TP,160	
SC5	2203-002398	C-CERAMIC,CHIP,22nF,10%,50V,X7R,TP,1608	
SC50	2203-006035	C-CERAMIC,CHIP,220NF,+10%,10V,X7R,TP,16	
SC51	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SC53	2203-000426	C-CERAMIC,CHIP,0.018NF,5%,50V,COG,TP,160	
SC54	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SC6	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SC7	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
SC8	2203-000491	C-CERAMIC,CHIP,2.2nF,10%,50V,X7R,TP,1608	
SC9	2203-000491	C-CERAMIC,CHIP,2.2nF,10%,50V,X7R,TP,1608	
SCC10	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SCC3	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
SCE1	2401-001507	C-AL,47uF,20%,16V,GP,TP6.3x5.5	
SCE10	2401-001507	C-AL,47uF,20%,16V,GP,TP6.3x5.5	
SCE3	2401-001507	C-AL,47uF,20%,16V,GP,TP6.3x5.5	
SCL10	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,-	
SCL11	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,-	
SCL2	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,-	
SCL21	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,-	
SCL4	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,-	
SCL5	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,-	
SCL6	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,-	
SCL7	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,-	
SCL8	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,-	
SCL9	3301-000353	BEAD-SMD,120ohm,2x1.25x0.9mm,200mA,TP,-	
SCN1	3710-001976	CONNECTOR-SOCKET,8P,2R,2mm,STRAIGHT,AUF	
SCON1	3710-001977	CONNECTOR-SOCKET,12P,2R,2mm,STRAIGHT,AUF	
SCON16	3710-001980	CONNECTOR-SOCKET,16P,2R,2mm,STRAIGHT,AUF	
SE1	2401-000414	C-AL,10uF,20%,16V,GP,TP4x7.5	
SE1	2401-001507	C-AL,47uF,20%,16V,GP,TP6.3x5.5	
SE2	2401-002165	C-AL,100uF,20%,16V,GP,TP6.3x7.5	
SIC1	AH13-00006B	IC ASIC,SSL1455X01,DVD-P293,160,+3.3V	
SIC2	1105-001355	IC-DRAM,416256,256KX16BIT,TSOP(II),40P	
SIC3	1003-001489	IC-MOTOR DRIVER,FAN8728,HQFP48P,14X14MM	
SL2	3301-000314	BEAD-SMD,AB,120ohm,1.6x0.8x0.8mm,150mA,	
SL3	3301-001419	BEAD-SMD,220,500,TP,-,0.3	
SR1	2007-001235	R-CHIP,910Kohm,5%,1/10W,TP,1608	
SR1	2007-000033	R-CHIP,0ohm,5%,1/4W,TP,3216	
SR100	2007-000109	R-CHIP,1Mohm,5%,1/10W,TP,1608	
SR11	2007-000124	R-CHIP,2.2Kohm,5%,1/10W,TP,1608	
SR13	2007-000092	R-CHIP,15Kohm,5%,1/10W,TP,1608	
SR14	2007-000092	R-CHIP,15Kohm,5%,1/10W,TP,1608	
SR15	2007-000091	R-CHIP,12Kohm,5%,1/10W,TP,1608	
SR16	2007-000655	R-CHIP,27Kohm,5%,1/10W,TP,1608	
SR17	2007-000090	R-CHIP,10Kohm,5%,1/10W,TP,1608	
SR18	2007-000078	R-CHIP,1Kohm,5%,1/10W,TP,1608	
SR19	2007-000090	R-CHIP,10Kohm,5%,1/10W,TP,1608	
SR2	2007-000090	R-CHIP,10Kohm,5%,1/10W,TP,1608	
SR2	2007-000033	R-CHIP,0ohm,5%,1/4W,TP,3216	

Electrical Parts List

Loc.No	Part No	Description : Specification	Remark
SR21	2007-000093	R-CHIP,20Kohm,5%,1/10W,TP,1608	
SR22	2007-000078	R-CHIP,1Kohm,5%,1/10W,TP,1608	
SR23	2007-000078	R-CHIP,1Kohm,5%,1/10W,TP,1608	
SR24	2007-000078	R-CHIP,1Kohm,5%,1/10W,TP,1608	
SR26	2007-000109	R-CHIP,1Mohm,5%,1/10W,TP,1608	
SR27	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SR28	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
SR29	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
SR3	2007-000092	R-CHIP,15Kohm,5%,1/10W,TP,1608	
SR31	2007-000078	R-CHIP,1Kohm,5%,1/10W,TP,1608	
SR32	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SR33	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SR34	3301-001419	BEAD-SMD-,220-,500,TP-,0.3	
SR35	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SR36	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
SR39	2007-000116	R-CHIP,120ohm,5%,1/10W,TP,1608	
SR4	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SR41	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SR42	2007-000078	R-CHIP,1Kohm,5%,1/10W,TP,1608	
SR43	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SR44	2007-000084	R-CHIP,4.7Kohm,5%,1/10W,TP,1608	
SR45	2007-000102	R-CHIP,100Kohm,5%,1/10W,TP,1608	
SR46	2007-001164	R-CHIP,75ohm,1%,1/10W,TP,1608	
SR48	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SR49	2007-000305	R-CHIP,10Mohm,5%,1/10W,TP,1608	
SR5	2007-000091	R-CHIP,12Kohm,5%,1/10W,TP,1608	
SR50	2007-000305	R-CHIP,10Mohm,5%,1/10W,TP,1608	
SR51	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SR52	2007-000075	R-CHIP,220ohm,5%,1/10W,TP,1608	
SR53	2007-000113	R-CHIP,33ohm,5%,1/10W,TP,1608	
SR54	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
SR56	2007-000084	R-CHIP,4.7Kohm,5%,1/10W,TP,1608	
SR6	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SR7	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
SR8	2007-000091	R-CHIP,12Kohm,5%,1/10W,TP,1608	
SR9	2007-000124	R-CHIP,2.2Kohm,5%,1/10W,TP,1608	
SY1	2801-000261	CRYSTAL-UNIT,33.8688MHz,50ppm,28-AAA,12p	
T16	6504-000129	TR-DIGITAL:KSRT1104,NPN,200mV,47K/47K,SOT	
T6	0401-000008	DIODE-SWITCHING,DAN217,80V,100mA,SOT-23,	
T7	0401-000008	DIODE-SWITCHING,DAN217,80V,100mA,SOT-23,	
ZC1	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC10	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC101	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC102	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC103	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC104	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC105	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC106	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC107	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC11	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC112	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC113	2203-000426	C-CERAMIC,CHIP,0.018nF,5%,50V,COG,TP,160	
ZC12	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC13	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC14	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC15	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC16	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC17	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC18	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC19	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC2	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC20	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC21	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC22	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC23	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC24	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	

Loc.No	Part No	Description : Specification	Remark
ZC25	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC27	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
ZC28	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC29	2203-000815	C-CERAMIC,CHIP,0.033nF,5%,50V,COG,TP,160	
ZC3	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC30	2203-000815	C-CERAMIC,CHIP,0.033nF,5%,50V,COG,TP,160	
ZC31	2203-000815	C-CERAMIC,CHIP,0.033nF,5%,50V,COG,TP,160	
ZC32	2203-000815	C-CERAMIC,CHIP,0.033nF,5%,50V,COG,TP,160	
ZC34	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC36	2203-000681	C-CERAMIC,CHIP,0.027nF,5%,50V,COG,TP,160	
ZC37	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC38	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC4	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC40	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC42	2203-000815	C-CERAMIC,CHIP,0.033nF,5%,50V,COG,TP,160	
ZC44	2203-000426	C-CERAMIC,CHIP,0.018nF,5%,50V,COG,TP,160	
ZC46	2203-000681	C-CERAMIC,CHIP,0.027nF,5%,50V,COG,TP,160	
ZC47	2203-000681	C-CERAMIC,CHIP,0.027nF,5%,50V,COG,TP,160	
ZC48	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC5	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC6	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZC7	2203-000681	C-CERAMIC,CHIP,0.027nF,5%,50V,COG,TP,160	
ZC9	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
ZE1	2401-002144	C-AL,47uF,20%,16V,GP,TP,5x11.5	
ZE2	2401-002144	C-AL,47uF,20%,16V,GP,TP,5x11.5	
ZE3	2401-002144	C-AL,47uF,20%,16V,GP,TP,5x11.5	
ZE4	2401-002144	C-AL,47uF,20%,16V,GP,TP,5x11.5	
ZIC1	1204-002067	IC-DECODER,ZR36748,GFP,208P,28X28MM,PLAS	
ZIC2	1105-001513	IC-DRAM,IS42S16400A-7T,1Mx16Bttx4Bt,T	
ZIC3	1107-001369	IC-FLASH MEMORY,MBM29LV800BA-90PTFN,512K	
ZIC7	1103-001204	IC-EEPROM,24C021,256x8Bt,SOP,8P,150uML	
ZIC8	0801-002701	IC-CMOS LOGIC,74VHCT125A,BUFFER,TSSOP,14	
ZJ3	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
ZJ4	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
ZL10	3301-001419	BEAD-SMD-,220-,500,TP-,0.3	
ZL105	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	
ZL2	2703-000398	INDUCTOR-SMD,10uH,10%,3.2x2.5x2.2mm	
ZL3	2703-000398	INDUCTOR-SMD,10uH,10%,3.2x2.5x2.2mm	
ZL5	3301-001419	BEAD-SMD-,220-,500,TP-,0.3	
ZL6	3301-001419	BEAD-SMD-,220-,500,TP-,0.3	
ZL7	3301-001419	BEAD-SMD-,220-,500,TP-,0.3	
ZL8	3301-001419	BEAD-SMD-,220-,500,TP-,0.3	
ZL9	3301-001419	BEAD-SMD-,220-,500,TP-,0.3	
ZR1	2007-000360	R-CHIP,12ohm,1%,1/10W,TP,1608	
ZR101	2007-001101	R-CHIP,62ohm,5%,1/10W,TP,1608	
ZR108	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP8P,TP	
ZR116	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP8P,TP	
ZR12	2011-000816	R-NETWORK,100OHM,5%,1/16W,L,CHIP8P,TP	
ZR13	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
ZR14	2007-001164	R-CHIP,75ohm,1%,1/10W,TP,1608	
ZR15	2007-001164	R-CHIP,75ohm,1%,1/10W,TP,1608	
ZR16	2007-001164	R-CHIP,75ohm,1%,1/10W,TP,1608	
ZR17	2007-001164	R-CHIP,75ohm,1%,1/10W,TP,1608	
ZR18	2007-001164	R-CHIP,75ohm,1%,1/10W,TP,1608	
ZR184	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
ZR185	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
ZR19	2007-001164	R-CHIP,75ohm,1%,1/10W,TP,1608	
ZR192	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
ZR2	2007-000360	R-CHIP,12ohm,1%,1/10W,TP,1608	
ZR20	2007-001164	R-CHIP,75ohm,1%,1/10W,TP,1608	
ZR21	2007-001164	R-CHIP,75ohm,1%,1/10W,TP,1608	
ZR22	2007-000113	R-CHIP,33ohm,5%,1/10W,TP,1608	
ZR23	2007-000113	R-CHIP,33ohm,5%,1/10W,TP,1608	
ZR24	2007-000113	R-CHIP,33ohm,5%,1/10W,TP,1608	
ZR25	2007-000113	R-CHIP,33ohm,5%,1/10W,TP,1608	
ZR26	2007-000070	R-CHIP,0ohm,5%,1/10W,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
ZR27	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR28	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR29	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR3	2007-000821	R-CHIP:390ohm,1%,1/10W,TP,1608	
ZR30	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR31	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR32	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR33	2007-000074	R-CHIP:100ohm,5%,1/10W,TP,1608	
ZR34	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR35	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	
ZR36	2007-000074	R-CHIP:100ohm,5%,1/10W,TP,1608	
ZR37	2007-000074	R-CHIP:100ohm,5%,1/10W,TP,1608	
ZR38	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	
ZR39	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	
ZR4	3301-001309	BEAD-SMD;AB,47ohm,1.6x0.8x0.8mm,500mA,T	
ZR40	2007-000074	R-CHIP:100ohm,5%,1/10W,TP,1608	
ZR41	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	
ZR42	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR44	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	
ZR45	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	
ZR46	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	
ZR48	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	
ZR5	2007-000074	R-CHIP:100ohm,5%,1/10W,TP,1608	
ZR56	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	
ZR57	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	
ZR6	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR60	2007-000074	R-CHIP:100ohm,5%,1/10W,TP,1608	
ZR62	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR63	2007-001164	R-CHIP:75ohm,1%,1/10W,TP,1608	
ZR66	2007-000113	R-CHIP:33ohm,5%,1/10W,TP,1608	
ZR67	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	
ZR69	2007-000074	R-CHIP:100ohm,5%,1/10W,TP,1608	
ZR7	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR8	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR9	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	
ZR93	2007-000074	R-CHIP:100ohm,5%,1/10W,TP,1608	
ZY1	2801-003554	CRYSTAL-UNIT;27MHz,10ppm,28-AAAM,12pF,40o	

602 AK92-00175E ASSY PCB-JACK;DVD-HD935/XEL,JACK ASS

AC201	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
AC202	2202-002037	C-CERAMIC,MLC-AXIAL,100nF,80-20%,50V,Y5V	
AC203	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
AC204	2202-000797	C-CERAMIC,MLC-AXIAL,10nF,30%,16V,Y5S,TP	
AC401	2203-000491	C-CERAMIC,CHIP,2.2nF,10%,50V,X7R,TP,1608	
AC402	2203-001640	C-CERAMIC,CHIP,0.39nF,10%,50V,X7R,TP,160	
AC403	2203-000491	C-CERAMIC,CHIP,2.2nF,10%,50V,X7R,TP,1608	
AC404	2203-001640	C-CERAMIC,CHIP,0.39nF,10%,50V,X7R,TP,160	
AC405	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
AC406	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
AC407	2203-000125	C-CERAMIC,CHIP,1.2nF,10%,50V,X7R,TP,1608	
AC408	2203-000125	C-CERAMIC,CHIP,1.2nF,10%,50V,X7R,TP,1608	
AC409	2203-000315	C-CERAMIC,CHIP,0.12nF,5%,50V,COG,TP,1608	
AC410	2203-000315	C-CERAMIC,CHIP,0.12nF,5%,50V,COG,TP,1608	
AC413	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
AD1	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AD2	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AD51	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AD54	0403-001158	DIODE-ZENER;MTZJ18C,18,500mW,DO-34,TP	
AD55	0403-001158	DIODE-ZENER;MTZJ18C,18,500mW,DO-34,TP	
AE10	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7.5	
AE201	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7.5	
AE401	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5.5	
AE402	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7.5	
AE403	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5.5	
AE404	2401-001507	C-AL;47uF,20%,16V,GP,TP,6.3x5.5	
AE405	2401-001507	C-AL;47uF,20%,16V,GP,TP,6.3x5.5	

Loc.No	Part No	Description ; Specification	Remark
AE406	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7.5	
AE407	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7.5	
AE51	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7.5	
AE52	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7.5	
AE6	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5.5	
AE9	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5.5	
AIC3	AH14-10094R	IC;M74HC04,SOP,TAPE 14P	
AIC4	1002-001294	IC;D/A CONVERTER;PCM1742KE,24BIT,TSSOP,1	
AL1	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
AL2	3301-000314	BEAD-SMD;AB,120ohm,1.6x0.8x0.8mm,150mA,	
AL201	2901-001125	FILTER-EMI ON BOARD;50V,0.5A,-220pF,7x2	
AL3	3301-000314	BEAD-SMD;AB,120ohm,1.6x0.8x0.8mm,150mA,	
AL4	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
AOP4	1201-000163	IC;OP AMP;4560,SOP8P,173MIL,DUAL,100V/m	
AQ1	0501-000398	TR-SMALL SIGNAL,KSC945,NPN,250mW,TO-92,T	
AQ3	0501-000398	TR-SMALL SIGNAL,KSC945,NPN,250mW,TO-92,T	
AQ4	0504-000128	TR-DIGITAL;-NPN,200MW,22K/22K,SOT-23,TP	
AQ5	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
AQ51	0504-000128	TR-DIGITAL;-NPN,200MW,22K/22K,SOT-23,TP	
AQ52	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
AQ55	0501-000303	TR-SMALL SIGNAL,KSA733,PNP,250mW,TO-92,T	
AQ6	0504-000128	TR-DIGITAL;-NPN,200MW,22K/22K,SOT-23,TP	
AQ7	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
AR201	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
AR202	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
AR203	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR21	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
AR22	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR24	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR26	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR35	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
AR36	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	
AR38	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR4	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR40	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR403	2007-001010	R-CHIP;51Kohm,5%,1/10W,TP,1608	
AR404	2007-001010	R-CHIP;51Kohm,5%,1/10W,TP,1608	
AR405	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
AR406	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
AR407	2007-001010	R-CHIP;51Kohm,5%,1/10W,TP,1608	
AR408	2007-001010	R-CHIP;51Kohm,5%,1/10W,TP,1608	
AR409	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
AR410	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
AR411	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	
AR412	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	
AR5	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR51	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR54	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR55	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
AR56	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR57	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR58	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AVJ1	3722-001469	JACK-PIN;3P/4P;3.2mm,NL,BLK,-	
AVJ2	3722-001464	JACK-PIN;6P;3.2mm,NL,BLK,-	
AVJ4	3722-001516	JACK-PIN;1P;3.5mm,NL,BLK,-	
AVJ5	3707-001060	CONNECTOR-OPTICAL;PLUG,GP1FA550T2,6DB,2.	
CN1	AK39-00031A	LEAD CONNECTOR-ASSY;Lead Connector Ass,U	
CN2	3708-000249	CONNECTOR-FPC/FPC/PC;27P;1.25mm,STRAIGH	
CN3	3711-000596	CONNECTOR-HEADER;BOX,10P;1R,2MM,STRAIGHT	
FC1	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
FC23	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,1608	
FC24	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,1608	
FC25	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,1608	
FC27	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
FC28	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
FC7	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	

Electrical Parts List

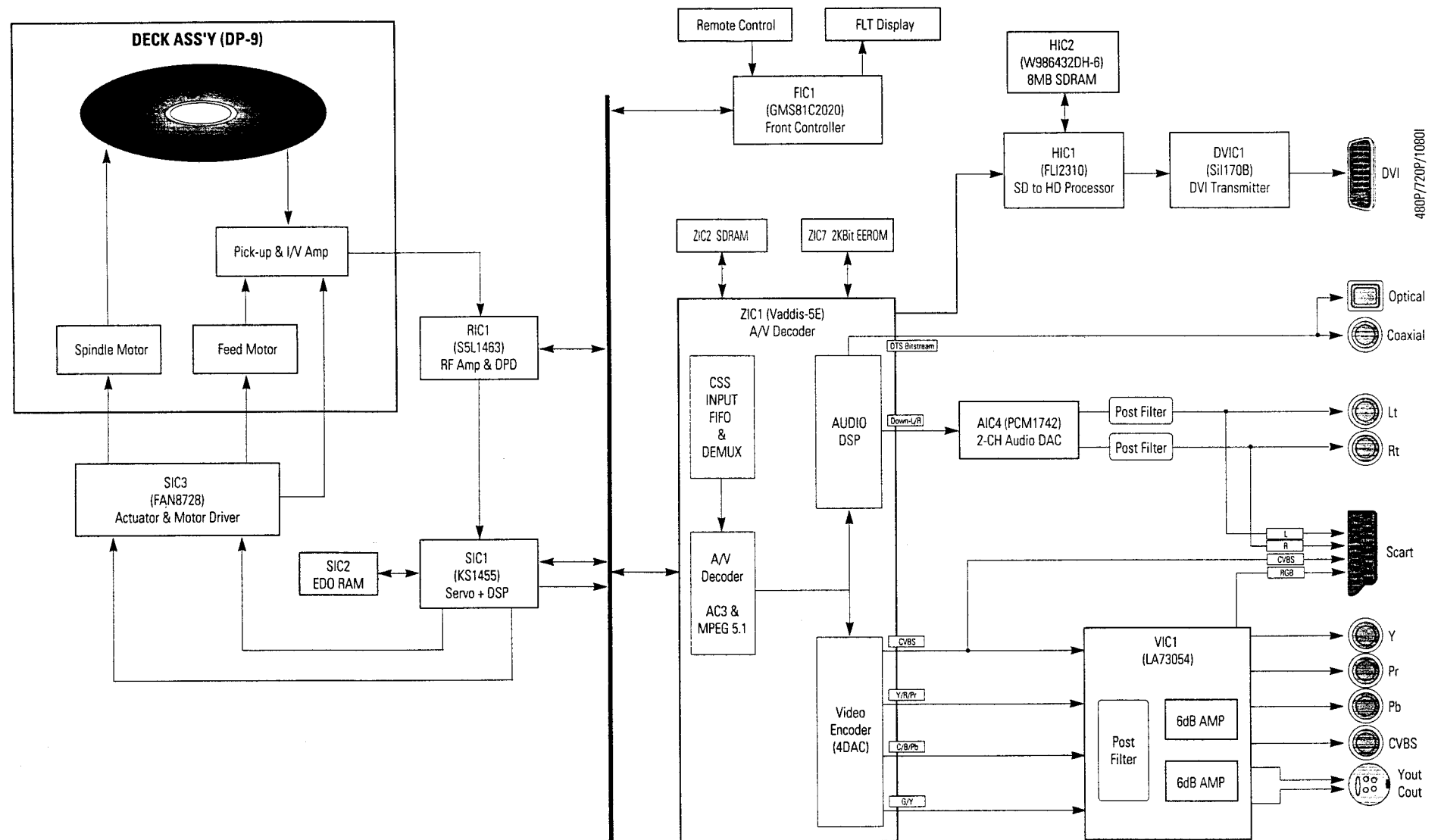
Loc.No	Part No	Description : Specification	Remark
FD10	0401-000101	DIODE-SWITCHING,1N4148,100V,200mA,DO-35,	
FD7	0401-000101	DIODE-SWITCHING,1N4148,100V,200mA,DO-35,	
FD9	0403-000551	DIODE-ZENER,MTZ3.9B,3.9V,3.89-4.16V,500m	
FE10	2401-000922	C-AL,22uF,20%,16V,GP,TP5x5.5	
FE7	2401-000922	C-AL,22uF,20%,16V,GP,TP5x5.5	
FE8	2401-001507	C-AL,47uF,20%,16V,GP,TP6.3x5.5	
FE9	2401-001507	C-AL,47uF,20%,16V,GP,TP6.3x5.5	
FEYE	AH59-00010A	MODULE REMOCOIN, -, 37.9KHZ,940NM, -, -, -	
FIC1	0903-001278	IC-MICROCONTROLLER,GMS87C2020,8BIT,MQFP,	
FIC7	1203-001252	IC-VOL. DETECTOR,7545,TO-92,3P,-,PLASTIC	
FL1	2701-000114	INDUCTOR-AXIAL,10uH,10%,2.5x3.4mm	
FQ29	0501-000398	TR-SMALL SIGNAL,KSC945,NPN,250mW,TO-92,T	
FQ54	0501-000341	TR-SMALL SIGNAL,KSC1623-L,NPN,200mW,SOT-	
FQ80	0501-000398	TR-SMALL SIGNAL,KSC945,NPN,250mW,TO-92,T	
FQ83	0501-000398	TR-SMALL SIGNAL,KSC945,NPN,250mW,TO-92,T	
FQ85	0501-000398	TR-SMALL SIGNAL,KSC945,NPN,250mW,TO-92,T	
FQ87	0501-000398	TR-SMALL SIGNAL,KSC945,NPN,250mW,TO-92,T	
FQ93	0501-000398	TR-SMALL SIGNAL,KSC945,NPN,250mW,TO-92,T	
FR07	2007-000078	R-CHIP,1Kohm,5%,1/10W,TP,1608	
FR071	2001-000429	R-CARBON,1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR072	2001-000793	R-CARBON,470HM,5%,1/8W,AA,TP,1.8X3.2MM	
FR1	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
FR16	2001-000027	R-CARBON,100OHM,5%,1/4W,AA,TP,2.4X6.4MM	
FR17	2001-000027	R-CARBON,100OHM,5%,1/4W,AA,TP,2.4X6.4MM	
FR19	2001-000007	R-CARBON,3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR191	2001-000890	R-CARBON,6.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR2	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
FR20	2001-000007	R-CARBON,3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR201	2001-000591	R-CARBON,3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR21	2001-000007	R-CARBON,3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR22	2001-000007	R-CARBON,3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR23	2001-000007	R-CARBON,3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR24	2001-000007	R-CARBON,3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR25	2007-000083	R-CHIP,3Kohm,5%,1/10W,TP,1608	
FR28	2001-000780	R-CARBON,470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR281	2001-000273	R-CARBON,100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR29	2001-000290	R-CARBON,10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR291	2001-000490	R-CARBON,200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR3	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
FR4	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
FR5	2001-000027	R-CARBON,100OHM,5%,1/4W,AA,TP,2.4X6.4MM	
FR54	2001-000281	R-CARBON,100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR56	2001-000429	R-CARBON,1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR6	2007-000074	R-CHIP,100ohm,5%,1/10W,TP,1608	
FR80	2001-000490	R-CARBON,200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR81	2001-000290	R-CARBON,10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR82	2001-000490	R-CARBON,200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR83	2001-000290	R-CARBON,10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR84	2001-000490	R-CARBON,200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR85	2001-000290	R-CARBON,10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR86	2001-000290	R-CARBON,10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR87	2001-000490	R-CARBON,200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR92	2001-000290	R-CARBON,10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR93	2001-000490	R-CARBON,200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR94	2001-000490	R-CARBON,200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FRA2	2011-001357	R-NETWORK,51K,5%,1/8W,AA,SIP,11PBK	
FRA3	2011-001357	R-NETWORK,51K,5%,1/8W,AA,SIP,11PBK	
FY1	2802-001094	RESONATOR-CERAMIC,4.0MHz,0.5%,TP8x3x5.5	
HC4	2203-005148	C-CERAMIC,CHIP,100nF,10%,16V,X7R,TP,1608	
HE3	2401-001250	C-AL,4.7uF,20%,35V,GP,TP4x5.5	
HE4	2401-001250	C-AL,4.7uF,20%,35V,GP,TP4x5.5	
HOP2	1201-000183	IC-OP AMP,4580,SOP8P,173MIL,DUAL,100V/m	
HR13	2007-001010	R-CHIP,51Kohm,5%,1/10W,TP,1608	
HR14	2007-001010	R-CHIP,51Kohm,5%,1/10W,TP,1608	
HR15	2001-000515	R-CARBON,220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
HR16	2001-000515	R-CARBON,220OHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc.No	Part No	Description : Specification	Remark
HR17	2007-001010	R-CHIP,51Kohm,5%,1/10W,TP,1608	
HR18	2007-001010	R-CHIP,51Kohm,5%,1/10W,TP,1608	
JC2	2203-000257	C-CERAMIC,CHIP,10nF,10%,50V,X7R,TP,1608	
JR1	2007-000029	R-CHIP,ohm,5%,1/8W,TP,2012	
PBR11	3301-000297	BEAD-AXIAL,3.6x1.2x5.7mm,1400,2900G	△
PBS01	3301-000297	BEAD-AXIAL,3.6x1.2x5.7mm,1400,2900G	△
PCD01	2201-000812	C-CERAMIC,DISC,2.2NF,20%,400V,Y5U,BK,12.	△
PCD04	2201-000987	C-CERAMIC,DISC,2.2NF,20%,400V,Y5U,BK,12.	△
PCD11	2305-001029	C-FILM,MPEF,10nF,10%,630V,TP,12x9x12.5,5	
PCD12	2201-000129	C-CERAMIC,DISC,0.1NF,10%,1KV,Y5P,TP,7x4MM	
PCF01	2305-001021	C-FILM,MPEF,100nF,20%,275V,TP,17.5x7x13	△
PCF02	2305-001021	C-FILM,MPEF,100nF,20%,275V,TP,17.5x7x13	△
PCF11	2401-002608	C-AL,33uF,20%,35V,GP,TP5x11.5	
PCF20	2201-000379	C-CERAMIC,DISC,22NF,±80-20%,50V,Y5V,TP,9	
PCN1	AH39-00403A	CONNECT WIRE, #26, -, WH/BLK, -, -, -	
PCNS2	3711-000178	CONNECTOR-HEADER,1WALL,2P,1R,3.95mm,STRA	△
PCS03	2201-000812	C-CERAMIC,DISC,2.2NF,20%,400V,Y5U,BK,12.	△
PCS32	2301-000129	C-FILM,PEF,100nF,5%,50V,TP,10X9X4.3X5.5m	
PDD35	0402-001195	DIODE-RECTIFIER,F1T4,400V,1.0A,TS-1,TP	
PDF13	0402-001195	DIODE-RECTIFIER,F1T4,400V,1.0A,TS-1,TP	
PDS01	0402-001196	DIODE-RECTIFIER,1T5,600V,1A,TS-1,TP	△
PDS02	0402-001196	DIODE-RECTIFIER,1T5,600V,1A,TS-1,TP	△
PDS03	0402-001196	DIODE-RECTIFIER,1T5,600V,1A,TS-1,TP	△
PDS04	0402-001196	DIODE-RECTIFIER,1T5,600V,1A,TS-1,TP	△
PDS11	0402-000012	DIODE-RECTIFIER,UF4007,1KV,1A,DO-41,TP	
PDS31	0402-001194	DIODE-RECTIFIER,UG2D,200V,2A,DO-204AC,TP	
PDS33	0402-001438	DIODE-RECTIFIER,SHK55-65,60V,3A,AXIAL,BK	
PDS34	0404-001180	DIODE-SCHOTTKY,SE55,45V,5000MA,TO-220A,B	
PDS36	0402-001195	DIODE-RECTIFIER,F1T4,400V,1.0A,TS-1,TP	
PDS51	0401-000101	DIODE-SWITCHING,1N4148,100V,200mA,DO-35,	
PDS52	0402-000127	DIODE-RECTIFIER,1N4002,100V,1A,DO-41,TP	
PEF12	2401-000598	C-AL,1uF,20%,50V,GP,TP,4x7.5	
PEF14	2401-002608	C-AL,33uF,20%,35V,GP,TP5x11.5	
PER10	2401-001682	C-AL,82uF,20%,400V,GPBK,22x25,10	
PES31	2401-000302	C-AL,100uF,20%,25V,GP,TP,6.3x11.5	
PES33	2401-003059	C-AL,1000UF,20%,16V,WT,TP,10X16,5	
PES34	2401-003360	C-AL,1000uF,20%,10V,LZ,TP,10x20,5	
PES35	2401-003046	C-AL,47uF,20%,50V,WT,TP,6.3x11.2,5	
PES36	2401-001353	C-AL,470uF,20%,10V,GP,TP,8x11.5,5	
PES37	2401-002042	C-AL,220uF,20%,10V,GP,TP,6.3x11.5	
PES51	2401-000302	C-AL,100uF,20%,25V,GP,TP,6.3x11.5	
PES52	2401-000598	C-AL,1uF,20%,50V,GP,TP,4x7.5	
PES54	2401-002144	C-AL,47uF,20%,16V,GP,TP,5x11.5	
PES56	2401-002165	C-AL,100uF,20%,16V,GP,TP,6.3x7.5	
PES57	2401-002165	C-AL,100uF,20%,16V,GP,TP,6.3x7.5	
PES58	2401-001353	C-AL,470uF,20%,10V,GP,TP,8x11.5,5	
PES99	2401-001353	C-AL,470uF,20%,10V,GP,TP,8x11.5,5	
PFD01	3601-001123	FUSE-CARTRIDGE,250V,1.6A,TIME-LAG,CERAMI	△
PIC1	1203-002651	IC-PWM CONTROLLER,ICE2B265,DIP8P,9.52X6	
PICS1	0604-000186	PHOTO-COUPLER,TR, -, 200mW,DIP-4,ST	△
PICS2	AC14-12006D	IC,KA431Z,TO-92,TAPING	
PICS3	1203-000242	IC-POSIXED REG,7812,TO-220,3P,-,PLAS	
PICS4	1203-002185	IC-VOLTAGE REGULATOR,3RD13,TO-220,4P,402	
PICS5	1203-002185	IC-VOLTAGE REGULATOR,3RD13,TO-220,4P,402	
PLS01	AC29-00003A	FILTER LINE NOISE, -, 20mH MIN, -, -, -	△
PLS02	AC27-12001N	COIL CHOK,10UH,15%,RA,K-30,080,150KHZ,-	
PMJP1	2001-000027	R-CARBON,100OHM,5%,1/4W,AA,TP,2.4X6.4MM	
PPS12	2006-000273	R-CEMENT,27KOHM,5%,2W,CA,BK,6.4X6.5X18MM	
PQL57	0504-000126	TR-DIGITAL,KSRI101,NPN,200mW,4.7K/4.7K,S	
PQL58	0501-000303	TR-SMALL SIGNAL,KSAT733,PNP,250mW,TO-92,T	
PQS55	0504-000142	TR-DIGITAL,KSRI2001,PNP,300mW,4.7K/4.7K,T	
PQS56	0504-000118	TR-DIGITAL,KSRI003,NPN,300mW,22K/22K,TO-	
PQS57	0501-000616	TR-SMALL SIGNAL,KSC2328A-Y,NPN,1W,TO-92L	
PQS58	0501-000616	TR-SMALL SIGNAL,KSC2328A-Y,NPN,1W,TO-92L	
PR2	2001-000546	R-CARBON,270KOHM,5%,1/4W,AA,TP,2.4X6.4M	
PR3	2001-000546	R-CARBON,270KOHM,5%,1/4W,AA,TP,2.4X6.4M	

Loc.No	Part No	Description ; Specification	Remark
PR4	2001-000546	R-CARBON;270KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
PRD31	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRD32	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRF10	2006-000262	R-CEMENT;2.7ohm,10%,2W,CB,TP,7.5x11x20	
PRF11	2001-000793	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRF17	2001-000527	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRF20	2003-000119	R-METAL OXIDE;0.68ohm,5%,2W,AE,TP,6x16mm	
PRL57	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRL58	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRS13	2006-000273	R-CEMENT;27KOHM,5%,2W,CA,BK,6.4X6.5X18MM	
PRS31	2001-000440	R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRS32	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRS33	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
PRS34	2004-000459	R-METAL;2.2Kohm,1%,1/8W,AA,TP,1.8x3.2m	
PRS54	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	
PRS55	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
PTD1	AK26-00014A	TRANS SWITCHING;EE2621,DVD-HD931,100-240	△
PVA1	1405-000186	VARIABLE;470V,2500A,17.5x7.5mm,TP	△
PZD11	0403-001318	DIODE-ZENER;MTZJ4.3B,4.17-4.43V,500mW,DO	
PZR32	0403-001211	DIODE-ZENER;MTZJ12B,11.44-12.03V,500mW,D	
PZS51	0403-000717	DIODE-ZENER;MTZJ5.1B,5.1V,4.94-5.2V,500m	
SCC3	2203-000236	C-CERAMIC,CHIP;0.1NF,5%,50V,COG,TP,1608	
SCC4	2203-000236	C-CERAMIC,CHIP;0.1NF,5%,50V,COG,TP,1608	
SCD1	0403-000297	DIODE-ZENER;MTZ6.2B,6.2V,5.96-6.27V,500m	
SCD2	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35	
SCE5	2401-000913	C-AL;22uF,20%,16V,GPT,PSx11.5	
SCE6	2401-000913	C-AL;22uF,20%,16V,GPT,PSx11.5	
SCJ1	3722-001359	JACK-SCART;21P,-,SN,BLK,#20-28	
SCL1	2703-001146	INDUCTOR-SMD;10uH,10%,2x1.25x0.85mm	
SCL2	2703-001146	INDUCTOR-SMD;10uH,10%,2x1.25x0.85mm	
SCQ1	0504-000128	TR-DIGITAL;-NPN,200MW,22K/22K,SOT-23,TP	
SCQ2	0504-000128	TR-DIGITAL;-NPN,200MW,22K/22K,SOT-23,TP	
SCQ3	0501-000314	TR-SMALL SIGNAL;KSA812,PNP,150mW,SOT-23	
SCQ4	0504-000128	TR-DIGITAL;-NPN,200MW,22K/22K,SOT-23,TP	
SCQ5	0501-000314	TR-SMALL SIGNAL;KSA812,PNP,150mW,SOT-23	
SCR1	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SCR15	2001-000969	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
SCR19	2001-000857	R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM	
SCR2	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
SCR20	2001-000857	R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM	
SCR3	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SCR35	2001-000969	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
SCR36	2001-000969	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
SCR37	2001-000969	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
SCR38	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	
SCR39	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	
SCR4	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
SVJ1	3722-001375	JACK-DIN;4P,-,NI,BLK,-	
VC1	2203-0005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC106	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
VC12	2203-0005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC14	2203-0005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC15	2203-0005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC16	2203-0005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
VC3	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
VC5	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
VC6	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
VCC3	2203-000783	C-CERAMIC,CHIP;0.33NF,5%,50V,COG,TP,1608	
VE1	2401-002165	C-AL;100uF,20%,16V,GPT,PSx7.5	
VE11	2401-002144	C-AL;47uF,20%,16V,GPT,PSx11.5	
VE12	2401-002165	C-AL;100uF,20%,16V,GPT,PSx7.5	
VE19	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
VE3	2401-002165	C-AL;100uF,20%,16V,GPT,PSx7.5	
VE5	2401-001479	C-AL;470uF,20%,10V,GPT,PS,-	
VE7	2401-001479	C-AL;470uF,20%,10V,GPT,PS,-	
VE9	2401-001479	C-AL;470uF,20%,10V,GPT,PS,-	

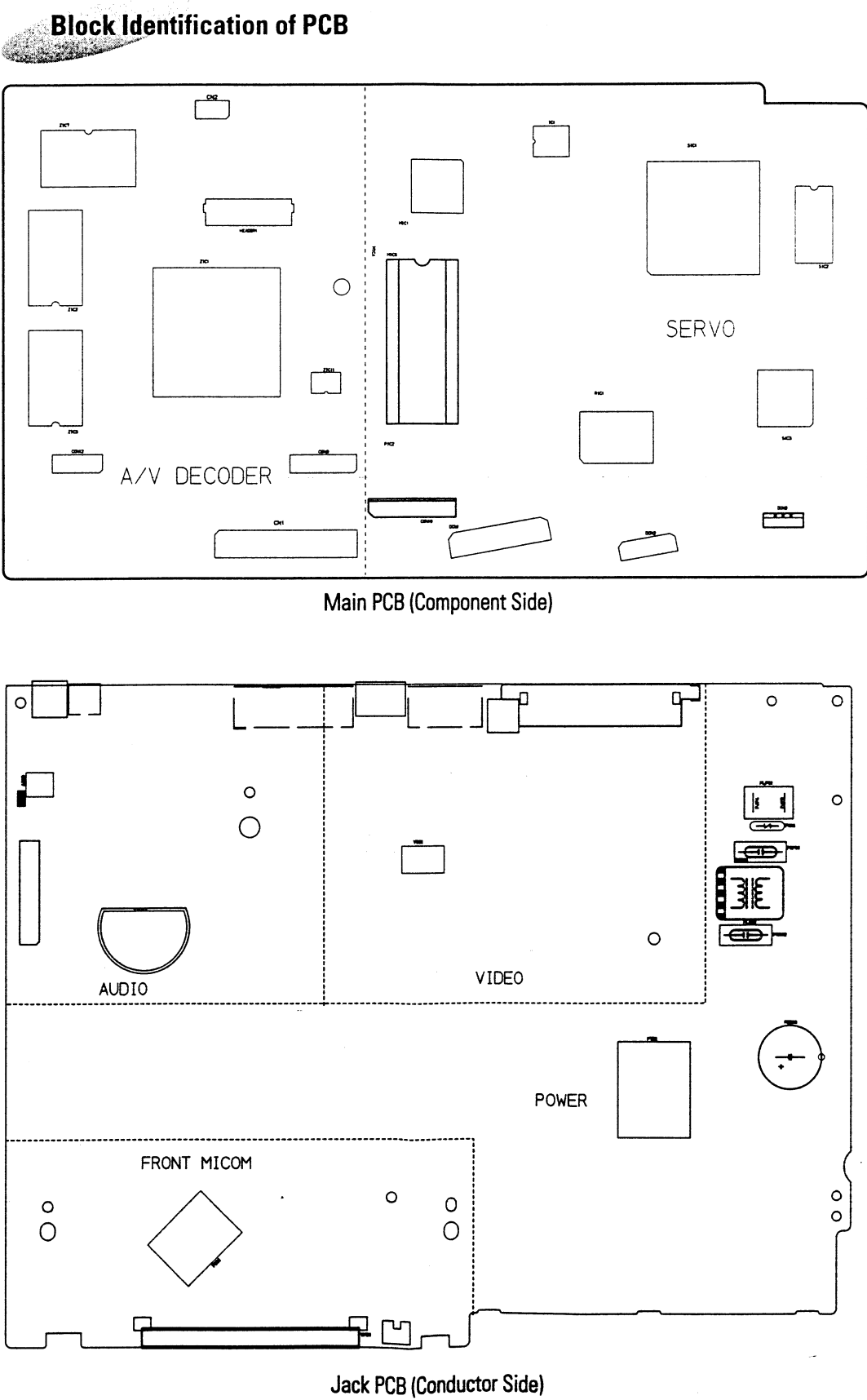
Loc.No	Part No	Description ; Specification	Remark
VFD1	AK07-00003A	VF DISPLAY;-HNW-08SS42,75X18.5MM,1/10.8	
VIC1	1204-001978	IC-VIDEO PROCESS;LA73054,-,36P,-,SSOP,7V	
VIC2	1204-001748	IC-SELECTOR;MM1503XN,SOP8P63MIL,PLASTI	
VIC3	1204-001748	IC-SELECTOR;MM1503XN,SOP8P63MIL,PLASTI	
VL1	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
VQ2	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
VQ4	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
VR10	2001-000969	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR11	2001-000969	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR12	2001-000969	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR121	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR122	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR123	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR126	2001-000009	R-CARBON;20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR128	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
VR13	2001-000969	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR14	2001-000969	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR15	2001-000969	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR16	2001-000969	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR32	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
VR34	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	
VR36	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
VR38	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	
VR4	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR41	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR42	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR43	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VZD1	0403-000720	DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
VZD11	0403-000720	DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
VZD12	0403-000720	DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
VZD2	0403-000720	DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
701	AK92-00198A	ASSY PCB-PWR KEY;DVD-HD931,PWR-KEY PCB A	
CN500	AH39-00283A	CONNECT WIRE;-#24,-,-,WHITE/BLK,-,-	
D500	0601-001597	LED;INVERTER,BLUE,3MM,465NM	
D501	0601-000003	LED;ROUND,RED/GRN,3.1MM,650/563NM	
D502	0601-001597	LED;INVERTER,BLUE,3MM,465NM	
D505	0601-001597	LED;INVERTER,BLUE,3MM,465NM	
PC1	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
PC2	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
PC3	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
R500	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R501	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SW500	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
SW501	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
SW502	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
702	AK92-00197A	ASSY PCB-JOG KEY;DVD-HD931,JOG-KEY PCB A	
CN400	AK39-00032A	LEAD CONNECTOR-ASSY;Lead Connector Ass,U	
D400	0601-001597	LED;INVERTER,BLUE,3MM,465NM	
D401	0601-001597	LED;INVERTER,BLUE,3MM,465NM	
D402	0601-001597	LED;INVERTER,BLUE,3MM,465NM	
D403	0601-001597	LED;INVERTER,BLUE,3MM,465NM	
JC1	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
JC2	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
R400	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R401	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R402	2001-000878	R-CARBON;6.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R404	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SW400	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
SW401	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
SW402	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
SW403	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
SW404	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
SW405	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
U400	3406-001073	SWITCH-ROTARY;5V,DC,0.5MA,24P,7.5MM	

5. Block Diagram



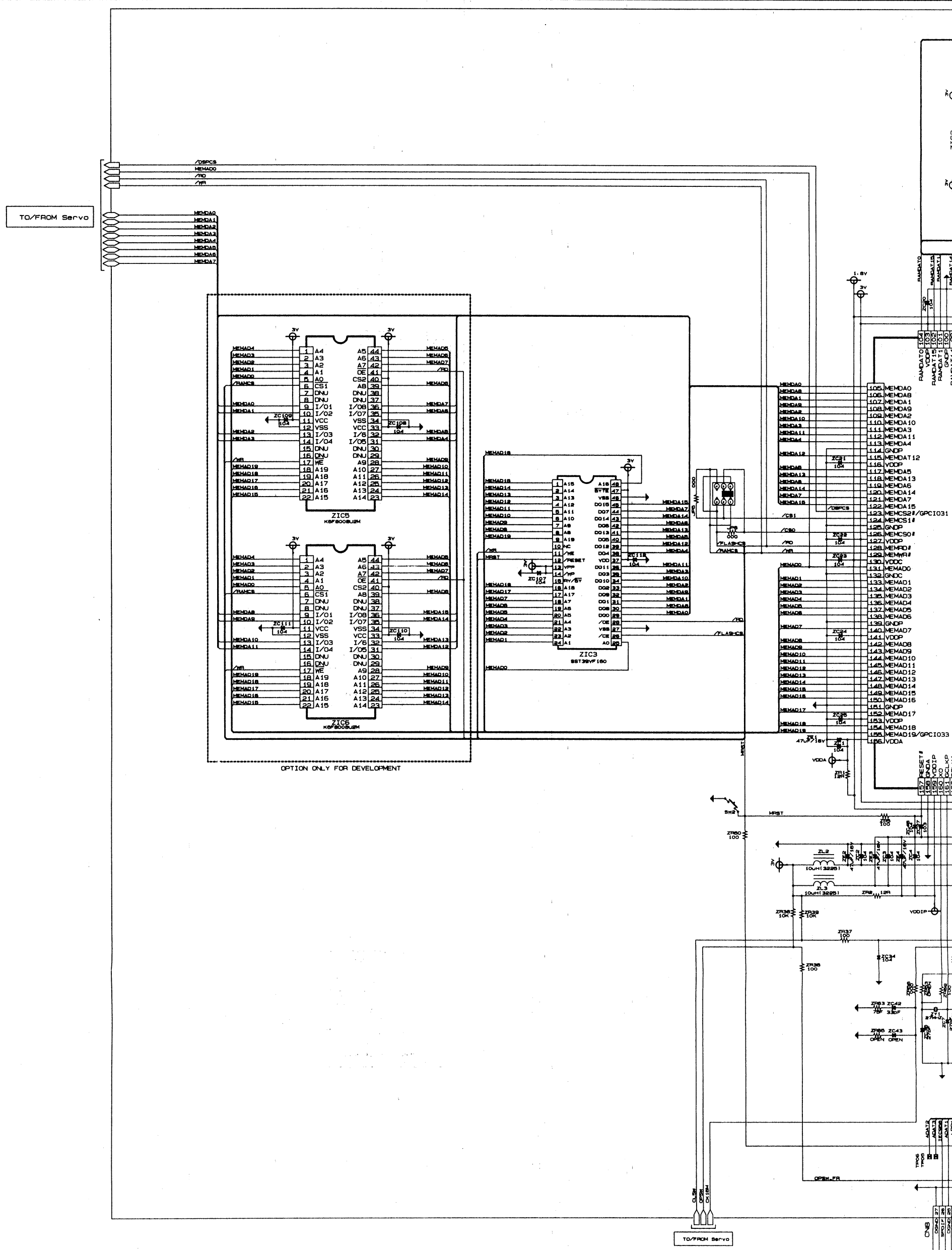
6. Schematic Diagrams

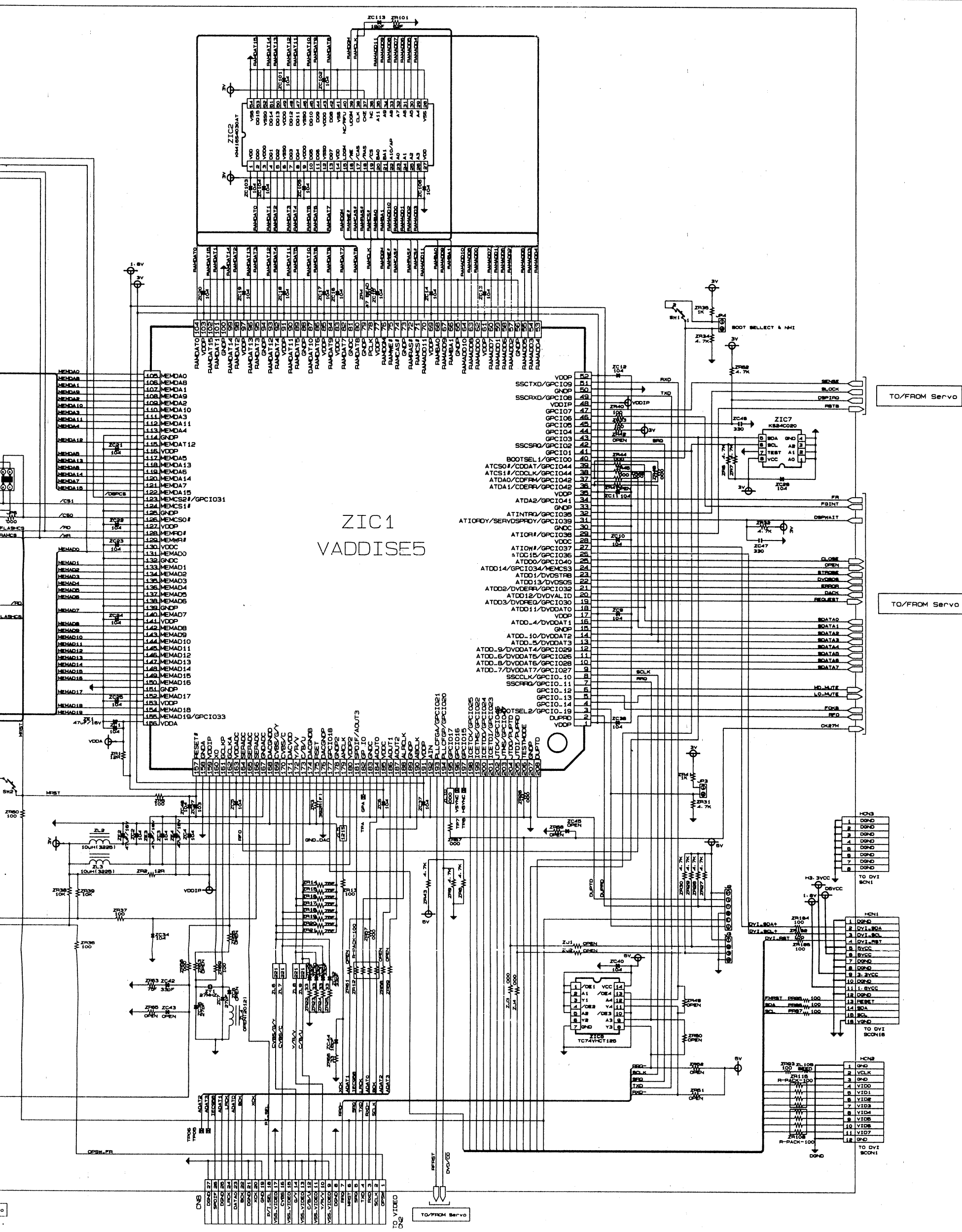
6-1 Power	6-2
6-2 AV-Decoder/Main-Micom	6-3
6-3 Servo	6-4
6-4 Front-Micom	6-5
6-5 Video	6-6
6-6 Audio	6-7
6-7 DVI	6-8
6-8 Key-Power	6-9
6-9 Key-Jog	6-10



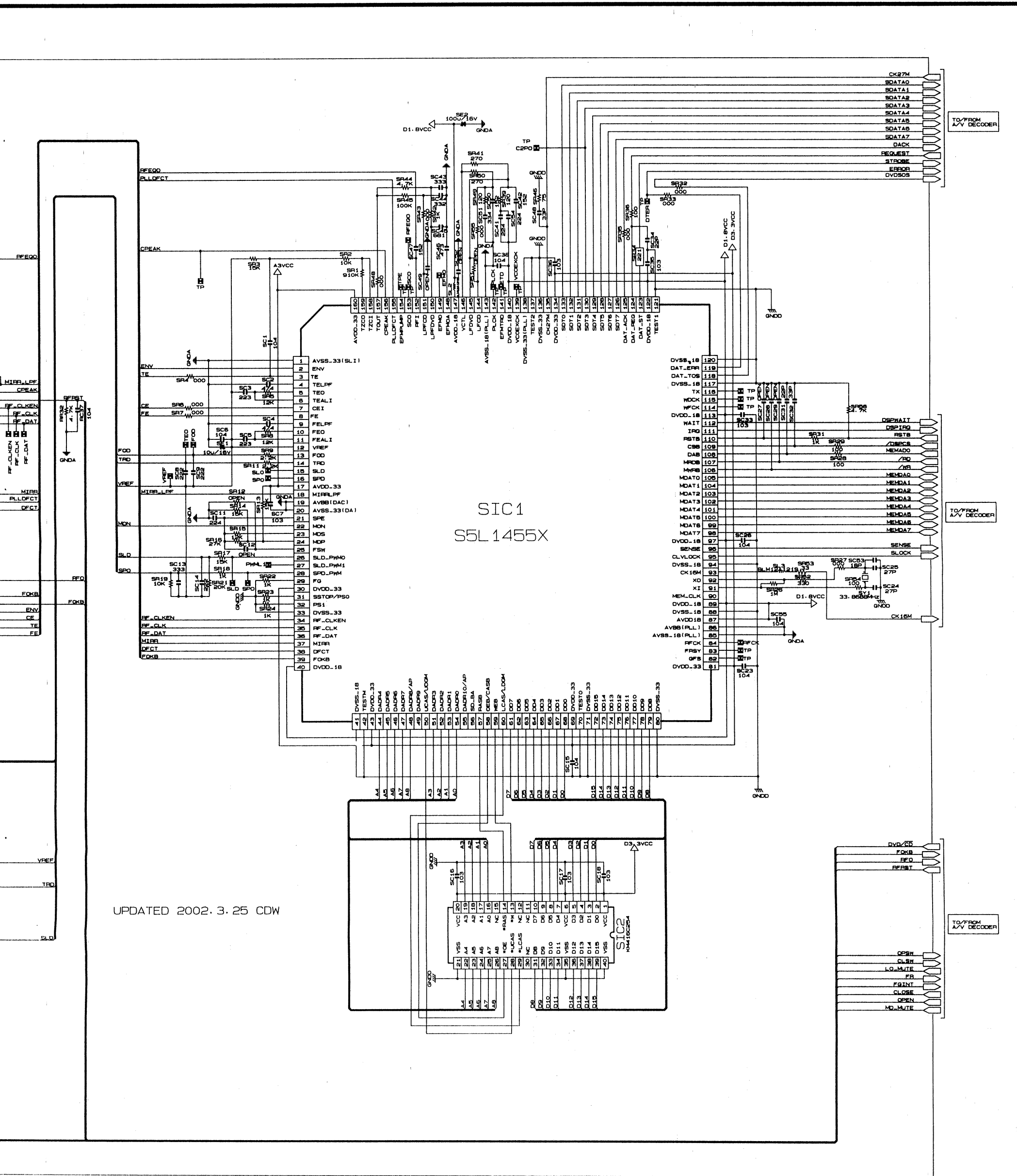


6-2 AV-Decoder/Main-Micom

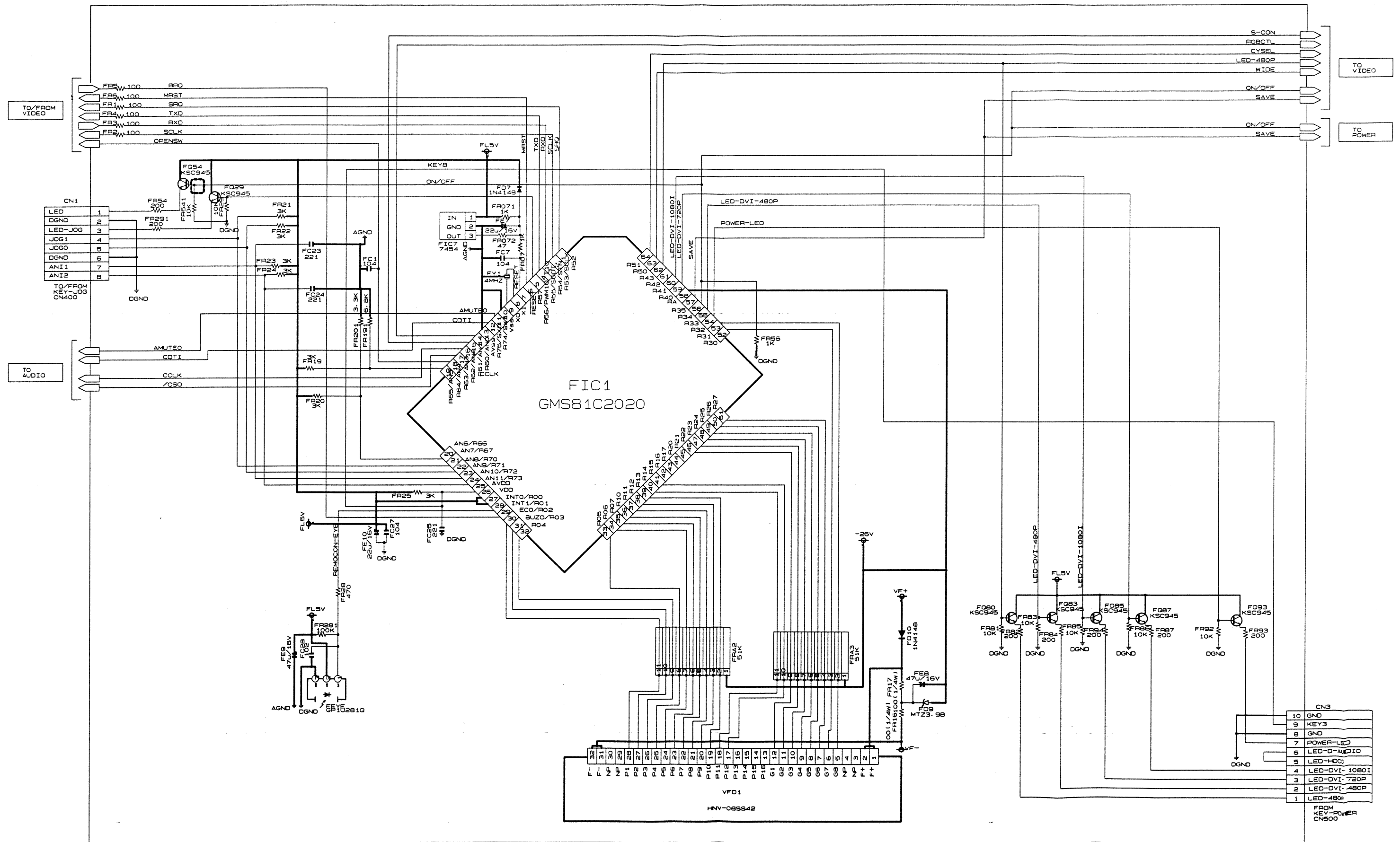


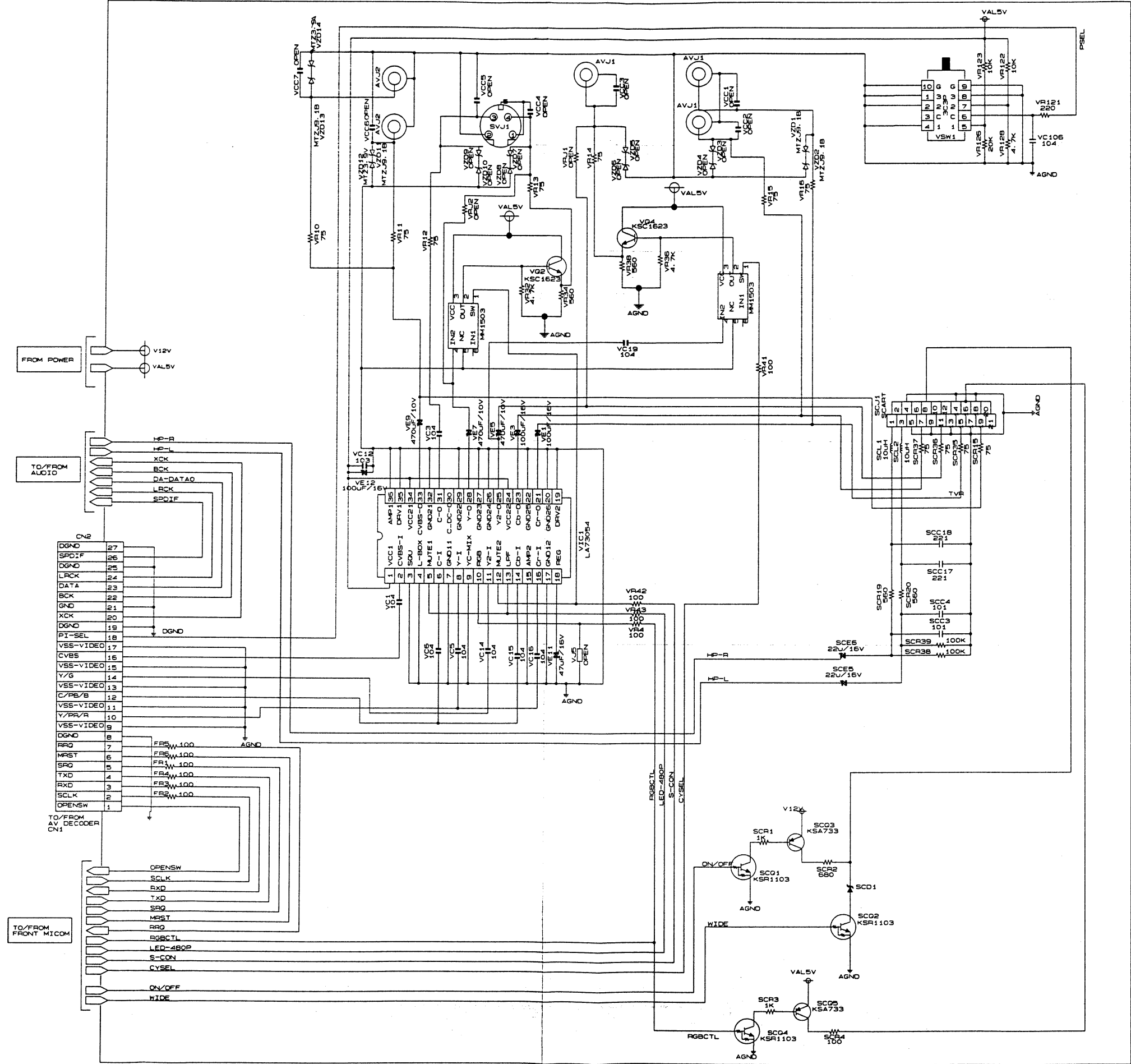




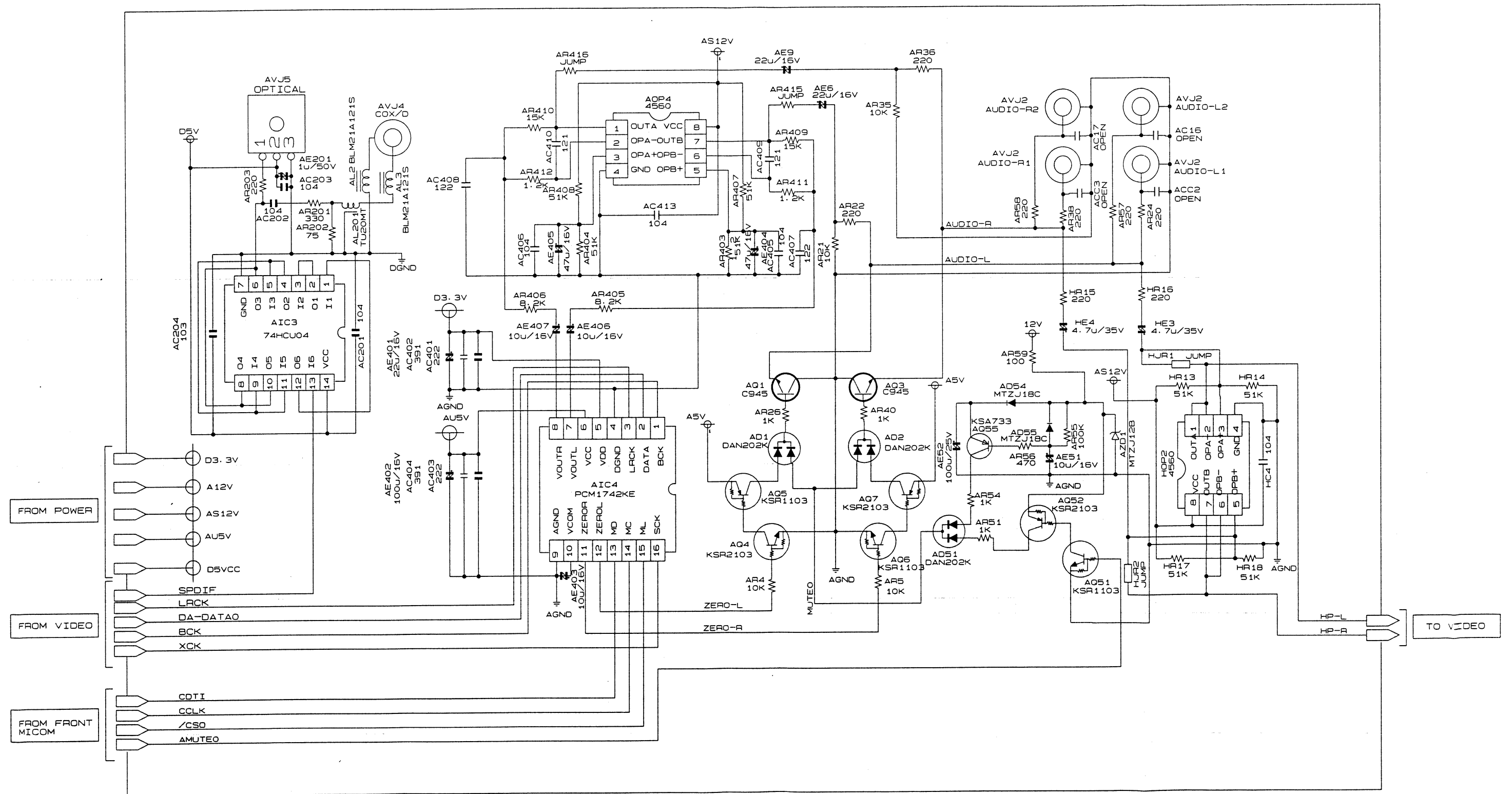


6-4 Front-Micom

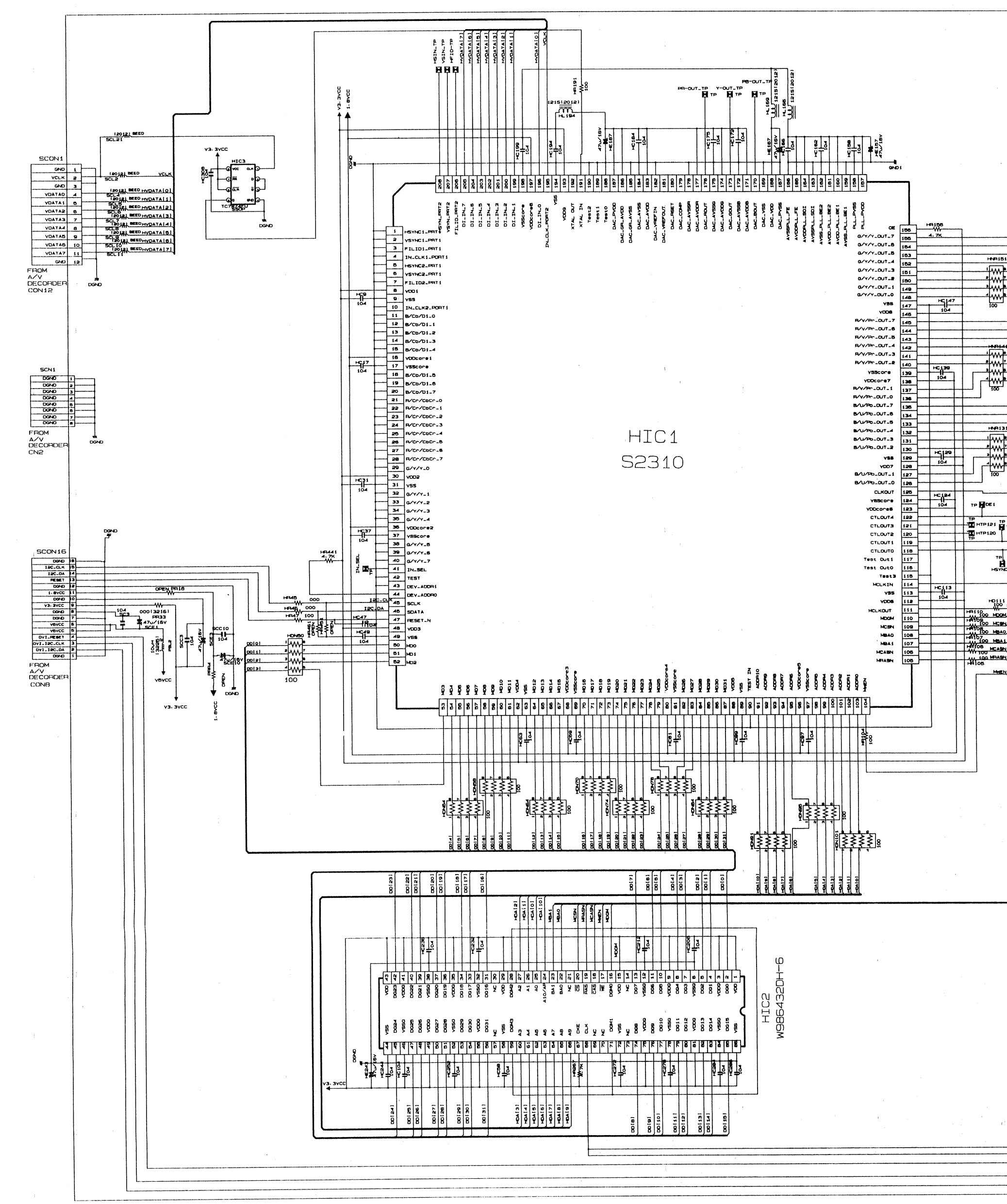


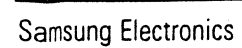


6-6 Audio



6-7 DVI





6-9 Key-Jog

